DOCUMENT RESUME

ED 051 602 24 EC 032 508

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Attitude Behaviors Toward Mentally Retarded Persons: TITLE

A Cross Cultural Analysis.

INSTITUTION Michigan State Univ., Fast Lansing. Coll. of

Education.

SPONS AGENCY Office of Education (DHEW), Washington, D.C.

Cooperative Research Program.

BR-7-E-126 BUREAU NO

70 PUB DATE

OEG-0-6-000126-0197 GRANT

NOTE 299p.

John E. Jordan, College of Education, Michigan State AVAILABLE FROM

University, East Lansing, Michigan

EDRS PRICE EDRS Price MF-\$0.65 HC Not Available from EDRS. **DESCRIPTORS**

*Altitudes, Behavior Rating Scales, *Foreign

Countries, *Mentally Handicapped, *National Surveys, Parent Attitudes, *Public Opinion, Research Projects, Social Attitudes, Teacher Attitudes

AESTRACT

Used in a cross-cultural study was the Attitude Behavior Scale-Mental Retardation (ABS-MR), designed to examine aspects of attitude-behaviors that are invariant, culturally determined, object determined, or situation determined, and multivariate relationships between these components. Data on structure, content, and determinants of attitudes of over 3,000 persons in seven countries were gathered. Concentrated upon were four groups: special education rehabilitation workers, regular teachers, parents of the retarded, and parents of the non-retarded. The instrument consisted of a facet theory derived six level attitude scale and questionnaire. Data are analyzed in terms of the relationship of attitude to the following predictor variables: values, knowledge of retardation, amount of contact with retarded, religiosity, age and education, openness to change, group membership, and multidimensionality. Data showed that attitudes at the action-behavior levels have an affective-value-contactual basis rather than a cognitive-knowledge one. Data also proved that the ABS-MR attitude-levels do exhibit a simplex structure, that selected variables are effective predictors of attitude-behaviors, that the ABS-MR can differentiate between groups having different degrees of favorableness of attitude, and that it is cross-culturally equivalent and comparable. (KW)



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attitude Behaviors toward Mentally Retarded Persons:

Cross Cultural Analysis

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by

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of Education College Michigan State University

1970

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PREFACE

Milton, the blind, who looked on Paradise!
Beethoven, deaf, who heard vast harmonies!
Byron, the lame, who climbed toward Alpine skies!
Rose Kennedy, mother, both to a retarded child and a President!
Who pleads a handicap remembering these?

The present research emerged from my 1968 <u>Eleven-Nation Study</u> but focuses on a different attitude object: i.e.--the mentally retarded.

Those who work locally, nationally, or internationally with mental retardation know the result: an inescapable involvement with the most "turned-on" group of parents and professionals in the world!

Throughout the seven¹ nations of this study, Belize (British Honduras), Brazil, Colombia, Germany, Israel, the United States, and Yugoslavia, I came to know at least a small part of the dynamics of being turned-on.

One only hopes the "heat" is not consuming!

To that "one" person, whoever he or she may be, who was most responsible for lighting the fires of involvement, may you profit as much as you gave. Remember this kind of involvement is somewhat like the American type of road called a "turnpike": the entrances are few and a wrong exit is costly.

As in the <u>Eleven-Nation Study</u>, I owe a special debt of gratitude to Professor Louis Guttman, Scientific Director of the Israel Institute of Applied Social Research, Jerusalem, Israel, for his assistance in the facet theory and non-metric analysis aspects of the study. Without his help this report would not be.



¹Iran in process but not complete.

Having just participated in the Second Congress of the International Association for the Scientific Study of Mental Deficiency, Warsaw, Poland and the Seminar on Social Problems in Mental Retardation at the Third International Congress of Social Psychiatry--Zagreb, Yugoslavia, I pause here at the oldest University in the Western Hemisphere while attending the Third Inter-American Regional Seminar on the Mentally Retarded Child and remember the thoughts at the Institute of Defectology--Zagreb, on March 9, 1968:

During the last five (now seven) years we have attempted to take up residence from the point of view of at least twelve nations (eight in this study); objectively, we can say we have slept in their beds, eaten at their tables, enjoyed their fellowship, debated with their students and professionals (and parents in this study), and learned to love, to live and to let live.... (Jordan, 1968, p. v),

and in this study to be turned on. We can only hope they were also turned-on by us and that the results of this study may help the cause of the mentally retarded--"to help a retarded person anywhere is to help all of them everywhere."

John E. Jordan University of San Marcos Lima, Peru December 9, 1970



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ATTITUDE-BEHAVIORS TOWARD MENTALLY RETARDED PERSONS: A CROSS-CULTURAL ANALYSIS

Ъу

John E. Jordan

College of Education

Michigan State University

1970



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ACKNOWLEDGMENTS

The statements made herein are solely the responsibility of the author. The research could not have been completed, however, without the financial support of the following sources: the nations involved; Phi Delta Kappa-for the 1967 International Research Award, the Latin American Studies Center--Michigan State University, the Institute of International Studies in Education--Michigan State University; the Committee for Eastern European Studies--Michigan State University; Social and Rehabilitation Service, Department of Health, Education and Welfare; the U.S. Office of Education, and a number of dedicated doctoral students whose theses and challanges are an integral part of this monograph.

The author is also indebted to the following organization for informational support throughout the project: The President's Committee on Employment of the Handicapped, Washington, D.C.; the International Society for Rehabilitation of the Disabled, New York; the International League of Societies for the Mentally Handicapped, Bruxelles, Belgium; the National Association of Retarded Children, New York, the Agency for International Development--U.S. Department of State, and the Partners of the Americas, Washington, D.C.

The research was completed under Office of Education Cooperative Research Grant Number OEG-0-8-000126-0197, Project Number 7-E-126, U.S. Department of Health, Education and Welfare. The data from the United States and Israel are open to the public domain since they were gathered as a part of the research contract. All other data, including comparisons to them, are fully coyprighted.

¹The data from the nations of the study presented herein will be used in a forthcoming book: <u>Attitudes Toward Mental Retardation in Seven Nations: A Guttman Facet Analysis</u>.



DECLARATION OF GENERAL AND SPECIAL RIGHTS OF THE MENTALLY RETARDED

Whereas the universal declaration of human rights, adopted by the United Nations, proclaims that all of the human family, without distinction of any kind, have equal and inalienable rights of human dignity and freedom;

Whereas the declaration of the rights of the child, adopted by the United Nations, proclaims the rights of the physically, mentally, or socially handicapped child to special treatment, education and care required by his particular condition.

Now Therefore

The <u>International League</u>¹ of Societies for the Mentally Handicapped expresses the general and special rights of the mentally retarded as follows:

Article I

The mentally retarded person has the same basic rights as other citizens of the same country and same age.

Article II

The mentally retarded person has a right to proper medical care and physical restoration and to such education, training, habilitation and guidance as will enable him to develop his ability and potential to the fullest possible extent, no matter how severe his degree of disability. No mentally handicapped person should be deprived of such services by reason of the costs involved.

Article III

The mentally retarded person has a right to economic security and to a decent standard of living. He has a right to productive work or to other meaningful occupation.

Article IV

The mentally retarded person has a right to live with his own family or with foster parents; to participate in all aspects of community life, and to be provided with appropriate leisure time activities. If care in an institution becomes necessary it should be in surroundings and under circumstances as close to normal living as possible.

Article V

The mentally retarded person has a right to a qualified guardian when this is required to protect his personal well-being and interest. No person rendering direct services to the mentally retarded should also serve as his guardian.



¹ 12 Rue Forestiere; Bruxelles 5 Belgium

Article VI

The mentally retarded person has a right to protection from exploitation, abuse and degrading treatment. If accused, he has a right to a fair trial with full recognition being given to his degree of responsibility.

Article VII

Some mentally retarded persons may be unable, due to the severity of their handicap, to exercise for themselves all of their rights in a meaningful way. For others, modification of some or all of these rights is appropriate. The procedure used for modification or denial of rights must contain proper legal safeguards against every form of abuse, must be based on an evaluation of the social capability of the mentally retarded person by qualified experts and must be subject to periodic reviews and to the right of appeal to higher authorities.

Above All: THE MENTALLY RETARDED PERSON HAS THE RIGHT TO RESPECT.



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CHAPTER 1

HISTORY OF THE ABS-MR¹ AND FACET THEORY

Attitude has been defined by Guttman (1950, p. 51) as a "delimited totality of behavior with respect to something." Most other definitions of attitude view it in terms of "predispositions" rather than as behavior per se. Guttman's behavioral definition is used herein as it is more operational and lends itself to a facet² theory analysis as developed below.

Bastide and van den Berghe (1957) proposed four types or levels of interaction with an attitude object which Guttman (1959) elaborated into a structural theory of belief and action (our attitude-behaviors) based on and defined by facets and elements of each level. Guttman defined four of these levels: (a) Stereotype, (b) Norm, (c) Hypothetical Interaction, and (d) Personal Interaction (Tables 1 and 2). "Attitude" in this schema thus ranges from the stereotypic level to the subject's actual self-reported behavior.

A comprehensive review of the literature (Jordan, 1968) on attitude studies indicated that four classes of variables seem to be important determinants, correlates and/or predictors of attitudes: (a) econdemographic factors such as age, sex, and income; (b) socio-psychological factors such as one's value orientation; (c) contact factors such as amount, nature, perceived voluntariness, and enjoyment of the contact, and (d) the knowledge factor, i.e., the amount of factual information one has about the attitude object.



¹ABS-MR (Attitude Behavior Scale--Mental Retardation). See page ii for forthcoming book using the ABS-MR data.

²The reader should become familiar with the terms in the glossary.

Most of the research studies, however, were inconclusive or contradictory about the predictor variables and I have suggested (Jordan, 1968, p. 73) that the reason might be attributed to the fact that the attitude scales were composed of items stemming from different structures, i.e., from different levels of Guttman's sub-universes. Lack of control over which attitudinal levels are being measured seems likely to continue to produce inconsistent, contradictory, and non-comparable findings in attitude research - a situation that the Guttman facet theory approach may be able to at least partially resolve.

Numerous researchers¹ have demonstrated the significance of attitudes in the acceptance of handicapped persons in certain social and educational settings. Gunzburg (1958) state, however, that mental retardation, unlike physical disability, is to a large extent a social concept, created in part by the Industrial Revolution. Increasing technological complexity as well as the progress of medical and psychological science have undoubtedly led to increased rates of retardation, both absolute rates because of expanding population and better diagnosis and treatment, and relative rates through identification of those who, while perhaps able to function in a simpler society, are unable to cope with the complex demands of modern society.

Hutt and Gibby (1965) and Gunzburg (1958) have stressed the necessity for concern with the reactions of society to mental retardation. Many of the behavioral reactions of the retardate are learned reactions which are

¹Barker, et al, 1953; Berreman, 1954; Cowen, et al, 1958, 1964, 1967; Force, 1956; Gowman, 1957; Haring, et al, 1958; Jaffe, 1966, 1967a b; Miller, 1956; Murphy, 1960; Murphy, et al, 1960; Simmons, 1955; Rogers and Quigley, 1960; Siller, 1967a, 1967b; Soldwedel and Terril, 1957; Wright, 1960; Yuker, et al, 1966.



3

a function of his social environment (Cohen, 1963; Peckham, 1955). Moreover, the attitudes of society also influence the programs that are provided for adequate care, management, and rehabilitation. Greenbaum and
Wang (1965) point out that the majority of retardates could be helped to
lead socially useful and independent lives if they were able to obtain
early the proper encouragement and guidance:

The likelihood of their doing so depends in great part on the attitudes and conceptions of mental retardation held by the public in general, and in particular by those individuals who have direct contact with the mental retardate at significant times in life (p. 257).

Despite the importance of community attitudes, however, very little systematic research has been directed toward uncovering factors which are instrumental in the development of attitudes toward the mentally retarded. What importance can be attributed for different (Table 4) attitudinal levels to: (a) the amount of contact a person has had with the mentally retarded, (b) the value orientation of the person, (c) the amount of factual knowledge about retardation he possesses, (d) the demographic characteristics of the subject, and (e) the existing social structure within cultural or subcultural groups?

Extensive reviews (Gottlieb, 1971; Harrelson, 1969; Morin, 1969; Vurdelja, 1970) of studies on attitudes toward mental retardation indicated that none of the previous studies employed an attitude scale constructed on the basis of the structural theory proposed by Guttman (1959). Thus it is unclear what attitudinal levels, or sub-universes in the Guttman model were being measured in most, if not all, of these studies although examination of the items indicates that most of the scales fall at the stereotypic level in Guttman's paradigm (Table 4).

It is also likely that at least some of the previous studies were measuring mixtures of Guttman's facets; some were measuring facets not



included by Guttman in his model, while some were not measuring attitudes at all but fell more in the realm of achievement tests, since factual knowledge also was being assessed. Lack of control over facets being measured will likely continue to contribute to results which are not comparable, are inconsistent, and are at times contradictory. Much the same can be said, of course, with regard to lack of control over subject variables, but this problem appears to be more easily correctible, provided that instrumentation is adequate and comparable.

It is also of note that not one study was encountered which attempted to relate findings cross-culturally or cross-nationally. In fact, only three studies (Laing & Chazan, 1966; Schonnel & Watts, 1956; Schonnel & Rorke, 1960) were found in the American literature which were conducted in countries other than the United States.

The importance of mental retardation in national development is only recently being recognized. As stated by Berg (1968, p. 126): "New evidence suggesting a relationship between malnutrition and mental retardation should be a cause for major policy concern in a number of world capitals." The relationships between poverty, malnutrition, and intellectual development or maldevelopment is currently a pressing issue, domestically and internationally (Hospital Tribune, 1968; Block et al, 1970; Kunce & Cope, 1969). The research and publications of the Institute of Nutrition of Central America and Panama (INCAP) in Guatemala City, Guatemala attest to the importance of the relationships between mental retardation and national development as does also the research connected with the Green Revolution from the Brookings Institute in Washington, D. C.

The proceedings 1 from the Third Inter-American Regional Seminar on Mental Retardation of December, 1970 will soon be available and contain



¹To be available from: Mental Retardation Section, Inter-American Childrens Institute, Av. 8 de Octobre 2882, Montevideo, Uruguay.

valuable information on relationships between malnutrition and mental retardation and its implications for national development--both for the more "affluent" and "poorer" sectors of the hemisphere.

Although no clear consensus existed in the review of literature, the review (Jordan, 1968) does indicate that numerous predictor variables do seem to be related to attitudes toward mental retardation, i.e., sex, education, social class, religion, occupation, an ount of knowledge, general value orientation, and contact or experience. Few of the studies, however, attempted to control systematically more than one or two of these variables or to relate verbal attitudes to actual action. It seems clear that research is needed which attempts to control systematically these predictor variables across various groups, cultures, and nations if fruitful and generalizable findings are to ensue concerning attitude-behaviors toward mentally retarded persons.

The ABS-MR

The construction of the ABS-MR was guided by a facet design (Tables 1-26 and Figures 1-3) which makes it possible to construct items by a systematic a priori method instead of by the method of intuition or by the use of judges. Facet theory (Guttman, 1959, 1961, 1970) specifies that the attitude universe represented by the item content can be substructured into semantic profiles which are systematically related according to the number of identical conceptual elements they hold in common. The substructuring of an attitude universe into profiles facilitates a sampling of items within each of the derived profiles, and also enables the prediction of relationships between various profiles of the attitude universe. This should provide a set of clearly defined profiles for cross-national, cross-cultural, and sub-cultural comparisons.



In spite of his earlier work in 1959, Guttman in 1966, in reporting on the development of "analytical and mechanical ability tests," stated: "This is the first time a methodology based on facet theory is systematically used in test development (p. 1)."

The notion of facets and their application to the development of tests has been extensively discussed by Guttman (1965, 1966). In the development of the joint dimension (i.e., levels of "strength") of the ABS-MR five sets of elements, A through E, are called facets, and their Cartesian space is the set of all combinations of \underline{a} b c d \underline{e} , where \underline{a} is an element of A --- and \underline{e} is an element of E. A Cartesian space may consist of any number of facets, or sets of elements; with \underline{n} facets, any one point in the Cartesian space has \underline{n} component elements.

The simplex analysis (Table 8) of the relationships between the six levels of the ABS-MR shows that the facet definition of the levels determine their position within the space, i.e., the correlational structure of the joint dimension of the ABS-MR is largely predictable by the relationship between subject and object as defined by an a prior: faceted definition.

In a reanalysis of research by Bastide and van den Berghe (1957), Guttman (1959) proposed that in respect to intergroup behavior there are three necessary facets which may be combined according to definite procedures to determine the element composition of eight important profiles of an attitude universe. Guttman's facets are presented in Table 1.



Table 1

Guttman's Facets Used to Determine Component Structure of an Attitude Universe

(A) Subject's Behavior	(B) Referent	(C) Referent's Intergroup Behavior
a _l belief	b ₁ subject's group	c ₁ comparative
a ₂ overt action	b ₂ subject himself	c ₂ interactive

One element from each and every facet must be represented in any given statement, and these statements can be grouped into profiles of the attitude universe by multiplication of the facets $A \times B \times C$, yielding a $2 \times 2 \times 2$ combination of elements or eight semantic profiles in all, i.e., (1) $a_1b_1c_1$, (2) $a_1b_1c_2$(8) $a_2b_2c_2$. It can be seen that profiles 1 and 2 have two elements in common (a_1b_1) and one different (c_1) and (c_2) , whereas profiles 1 and 8 have no elements in common.

The capital letters A, B, and C depict the three facets, while the subscripts denote the respective elements. Thus $a_1b_1c_2$ reads: Belief (a₁) of a subject that his own group (b₁) interacts (c₂) with a specified attitude object. Similarly, $a_2b_2c_2$ reads: Self or observed reports of a subject's overt action (a₂) of himself (b₂) interacting (c₂) with a specified attitude object.

Using the Bastide and van den Berghe (1957) research, Guttman was able to facetize the semantic structure of their four attitude levels as shown in Table 2.



Table 2
Guttman Facet Profiles of Attitude Subuniverses

Subscale Type-Level	Subuniverse	Profile
1	Stereotype	^a 1 ^b 1 ^c 1
2	Norm	^a 1 ^b 1 ^c 2
3	Hypothetical Interaction	^a 1 ^b 2 ^c 2
4	Personal Interaction	a2b2c2

The model in Table 2 depicts attitude-behaviors ranging from a Stereotypic level to Personal Interaction. A common meaning for the orderings was suggested by Guttman, i.e., they show in each case a progression from a weak to a strong form of behavior of the subject vis-a-vis the attitude object. That is, the more subscript "2" elements a profile contains the greater the strength of the attitude.

Facet analysis of the semantic structure provides a social psychological basis for predicting the structure of the empirical intercorrelation matrix of the above four levels.

One cannot presume to predict the exact size of each correlation coefficient from knowledge only of the semantics of universe ABC, but we do propose to predict a <u>pattern</u> or structure for the <u>relative</u> sizes of the statistical coefficients from purely semantic considerations (Guttman, 1959, p. 324).

This prediction was stated by Guttman as the Contiguity Hypothesis:

Subuniverses closer to each other in the semantic scale of their definitions will also be closer statistically. In other words, the intercorrelations should reveal a simplex ordering so that the maximum predictability of each level is attainable from its immediate neighbor or neighbors



alone. This predicted relationship has been obtained for the ABS-MR scale (Tables 8 and 29) as well as by Erb (1969), Foa (1958, 1963), Frechette (1970), Guttman (1961), and Williams (1970) on other attitude objects.

It has been suggested elsewhere (Jordan, 1968, p. 76) that the facets proposed by Guttman need to be expanded. This more inclusive set of facets and their elements is stated in Tables 3 and 4. Table 5 depicts the relationship between the Guttman four-level and the Jordan six-level facet systems.

Table 3

Jordan Facets Used to Determine Joint^a Struction of an Attitude Universe

Ref	(A) erent	Ref	(B) erent avior	(C Act	•	Int	(D) or's ergroup avior	Act	(E) ain of or's avior
a ₁	others	b ₁	belief	c ₁	others	$^{d}1$	comparison	e ₁	symbolic
^a 2	self	b ₂	action	c ₂	self	^d 2	interaction	е ₂	operational

^aJoint struction is operationally defined as the ordered sets of the five facets from low to high (subscript 1's are low) across all five facets simultaneously.



Table 4

Joint Level, Profile Composition, and Labels for Six Types of Attitude Struction

Subscale Type-Level	Struction ^a Prcfile ^b	Descriptive Joint Term
1	a ₁ b ₁ c ₁ d ₁ e ₁	Societal Stereotype
2	^a 1 ^b 1 ^c 1 ^d 2 ^e 1	Societal Norm
3	^a 2 ^b 1 ^c 1 ^d 2 ^e 1	Personal Moral Evaluation
4	^a 2 ^b 1 ^c 2 ^d 2 ^e 1	Personal Hypothetical Action
5	^a 2 ^b 2 ^c 2 ^d 2 ^e 1	Personal Feeling
6	^a 2 ^b 2 ^c 2 ^d 2 ^e 2	Personal Action

^aSee Tables 14-26 and the ensuing discussion for the rationale concerning the different orders possible for the facets of Tables 3 and 4.



 $^{^{\}rm b} See$ Table 22 for presentation of profiles arranged by both "definitional statement" and "facet change" to produce a simplex.

 $\begin{tabular}{ll} Table 5 \\ \begin{tabular}{ll} Comparison of Guttman and Jordan Facet Designations \\ \end{tabular}$

	·	В	n Jordan Ada		17
	A 			D 	E
Jordan	Referent	Referent behavior	Actor	Actor's intergroup behavior	Domain of actor's behavior
	$\mathtt{a_1}$ others	b _l belief	\mathtt{c}_1 others	$^{ m d}_{ m 1}$ comparison	e ₁ symbolic
	a ₂ self	b ₂ overt action	c ₂ self	d ₂ interaction	e ₂ operational
Guttman		Subject's behavior	Referent	Referent's intergroup behavior	
		b _l belief	c _l subject group	's d ₁ comparation	/e
		b ₂ overt action	c ₂ subject himself	d ₂ interactiv	<i>y</i> e



CHAPTER 2

ABS-MR TEST DEVELOPMENT DATA

From a "theory of content" dictated by Figures 1 & 3, generalized into Figure 2, and structured into six levels or subscales by Table 3, 20 items were constructed for each of the six levels for a total of 120 items. A measure of intensity was also constructed for each of the items, the attitude scale thus comprised 240 items. Sixty additional items of demographic, contact and related data, value orientation, and knowledge about mental retardation were developed for a total of 300 items per subject. The data are presented as variables in Table 6 with an abbreviated meaning for each (See items in Appendix A.3 for details of directionality and nature of item foils).

Administration Procedures

The ABS-MR was designed for group administration but can also be administered individually. The instructions are simple and straightforward and the scale requires a reading level of about fifth grade.

Usual test administration procedures of privacy and lack of distracting stimuli should be followed. In some of the underdeveloped nations, experience shows that participants seem to understand better if the covering page of instructions is read verbally to them by the person administrating the scales. This is likely due to the verbal nature of much of the educational process in such nations, the relative inexperience in taking standardized tests, and the scarcity of written material.

Subjects

The ABS-MR was administered to three groups in the test development study:

(a) 88 Michigan State University (MSU) graduate students (46 female, 42 male)



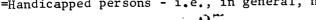
Table 6 Variables^a Used in the Cross-Cultural Mental Retardation Study

	Variable ^a r and name	Range of scores	Meanings ^b In Item Categories
1-5	Attitude content	20-60	less to more, not approve to approve
6		20- 5 7	no experience to experience
	Attitude Intensity	20-80	not sure to sure
15	Efficacy- C ontent	9-36	strongly disagree to strongly agree
16	Efficacy-Intensity	9-36	not sure at all to very sure
17	MR Knowledge	0-16	factual knowledge about MR
18	HP Amount	1-5	less 10 contacts, 10-50, 50-100, 100-500 500+
19	HP ^C Avoid	1-5	could not avoid contact to voluntary contact
20	HP Income	1-5	no exp., less 25%, 26-50%, 51-75%, over 76%
21	HP Alternatives	1-5	from no other job available to chose to work with
22	MR Amount	1-5	less 10 times, 10-50, 50-100, 100-500, over 500 times
23	MR Enjoy	1-5	no exp., def. dislike, not much, like some, def. enjoy
24	Age	1-5	under 20, 21-30, 31-40, 41-50, 50+
25	Educ. Amount	1-5	6 or less years, 9 or less, 12 or less, some college, a degree
26	Religion Import.	1-5	prefer NR, no rel. not very imp., fairly imp., very imp.
27	Religion Adher.	1-5	prefer NR, no rel., sometimes, usually, ab. always
28	Self Change	1-4	difficult, slightly diff., easy, very easy
29	Child Rearing	1-4	str. disag., sl. disag., sl. agr., str.
30	Birth Control	1-4	<pre>al. wrong, us. wr., prob. right, al. right</pre>
31	Automation	1-4	st. disag., sl. disag., sl. ag., st. agre
32	Political Lead.	1-4	st. disag., sl. disag., sl. ag., st. agre
33	Rule Adher.	1-4	agree st., ag. sl., disagree sl., dis. st
34	Local Aid	1-4	st. disag. to st.agree on local finance of educ.
35	Federal Aid	1-4	st. disag. to st. agree on federal finance of educ.
36,	Ed. Planning	1-4	educ. planning, church to state and local to federal

aConsult the ABS-MR questionnaire for full details of items.

bAll the items in the six attitude scales are scored such that a higher number implies "favorableness." Thus item category number "3" could be "agree or disagree," "less or more," depending on the directionality of the item stem.

CHP=Handicapped persons - i.e., in general, not restricted to MR.





in a course on medical information for special education or rehabilitation counselors-SER; students who were studying to be professionals in the area of disabling or handicapping conditions, (b) ED 200 -- 633 regular education students during the 1968 winter term, and (c) 523 elementary school teachers (381 female, 142 male) in Belize (British Honduras). The groups (Table 13) were chosen on the basis of a presumed difference in age, education, cultural orientation, as well as knowledge and experience regarding retardation. See Appendix A.5 for data on additional groups of subjects.

Scoring Procedures

The ABS-MR yields six subscale scores and was constructed to permit the administration of the entire scale <u>or any one of the six</u> subscales separately.

As pointed out by Harrelson (1969), parents of the non-retarded and teachers of the retarded in Germany achieved approximately the <u>same total score</u> but differed markedly on all of the various levels of the ABS-MR. The total score can thus often be quite deceiving and invalid. In view of these limitations the total score should either not be used at all or used only when comparing groups or individuals whose subscale scores "order" approximately in the same manner.

The subscale content scores are obtained simply by summing the response categories for the 20 items at each level. Table 6 contains the range of scores for each variable used in the ABS-MR. Each subscale of the ABS-MR can be scored separately for content and intensity or combined into one score via the procedures developed in Table 7. This report uses content only but the forthcoming book will use both procedures.



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Table 7

Combined Content-Intensity Scoring Procedure for MBS-MR Levels 1-6

omb ined 0 0 0 0 1 2 5 8 8 8 4 4 7 7 8 8 8 8 8 8 8 8 8 1 1 1 1 1 1 1 1 1		Combined Scores:	ores: Levels	s 1-5	Ö	Combined Scores:	Level 6	
1 0 D^-letcd from analysis because 0 1 0 0 2 aftitude direction was inde- 0 2 0 3 0 terminable 0 3 0 4 0 3 0 5 Intensity error assumed and 1 0 2 6 2 assigned 1 0 2 7 Medium negative attitude 1 1 2 3 8 Attendatives 2 3 4 9 Strong neutral attitude 2 2 2 1 4 Weak neutral attitude 2 2 3 1 7 Weak positive attitude 2 1 5 1 7 Weak positive attitude 3 3 8 8 Attendatives 3 4 9 9 Strong neutral attitude 3 1 8 1 7 Weak positive attitude 3 1 8 1 8 Pues intensity 1 1 1 1 1 1 1 1 1	Content	Intensity	Combined		Content	Intensity	Comb in ed	Rationale
2 0 attitude direction was inde- 0 2 0 3 0 terminable 0 2 0 0 2 Intensity error assumed and 1 0 2 0 5 neutral intensity score of 2 0 5 2 assigned 2 0 5 8 3 1 Strong negative attitude 1 4 1 2 2 2 Weak negative attitude 1 3 2 3 1 3 Weak negative attitude 2 2 4 6 2 5 Medium neutral attitude 2 3 2 3 2 3 3 6 Strong neutral attitude 2 4 6 4 6 1 Weak positive attitude 2 3 4 9 4 9 2 8 Medium positive attitude 3 4 9	0	1	0		0	1	0	Deleted from analysis because
3 0 terminable 0 3 0 0	0	2	0	attitude direction was inde-	0	2	0	attitude direction was inde-
0	0	٣	0	terminable	0	3	0	terminable
0 2 Intensity error assumed and 1 0 2 0 5 neutral intensity score of 2 0 5 1 2 2 2 3 2 3 4 Medium negative attitude 1 1 2 3 4 Meak neutral attitude 2 2 3 4 Medium neutral attitude 2 3 3 5 Medium neutral attitude 2 3 3 7 Medium neutral attitude 2 3 5 8 Medium positive attitude 3 3 8 9 Strong positive attitude 3 4 9 1 7 Medium positive attitude 3 4 9 2 Medium positive attitude 3 4 9 1 1 1 8 1 2 4 6 2 3 5 6 3 4 6 4 6 5 7 6 5 7 7 7 8 7 8 7 9 9 1 9 1 9 1 1 1 1 2 2 3 3 4 4 9 1 7 8 8 9 Strong positive attitude 3 1 1 8 1 5 1 7 9 9 1 9 1 1 1 1 2 2 4 4 6 5 7 6 6 7 7 8 8 9 9 1 1 1 1 2 1 2 2 4 4 6 5 7 6 7 7 8 8 8 9 9 1 9					0	7	0	
0 5 neutral intensity score of 2 2 0 5 0 8 2 assigned 3 0 5 3 1 Strong negative attitude 1 4 1	1	0	2	Intensity error assumed and	1	0	2	Intensity error assumed and
0 8 2 assigned 3 0 8 3 1 Strong negative attitude 1 4 12 2 2 Medium negative attitude 1 2 2 1 3 Weak negative attitude 2 2 4 2 4 Medium neutral attitude 2 2 4 6 1 5 Medium neutral attitude 2 3 5 4 6 1 7 Weak positive attitude 2 1 5% 2 8 Medium positive attitude 3 2 7 2 8 Medium positive attitude 3 4 9 2 8 Medium positive attitude 3 4 9 2 8 Medium positive attitude 3 4 9 2 9 Strong positive attitude 3 4 9 2 1 - weak intensity - no response 1 - no re	2	0	5	neutral intensity score of	2	0	5	neutral intensity score of
3 1 Strong negative attitude 1 4 1 2 1 3 Weak negative attitude 1 1 2 1 4 Weak neutral attitude 2 2 3 2 5 Medium neutral attitude 2 3 5 3 6 Strong neutral attitude 2 1 5 1 7 Weak positive attitude 3 3 8 2 8 Medium positive attitude 3 3 8 3 9 Strong positive attitude 3 4 9 1 7 Weak positive attitude 3 1 8 2 7 6 6 3 6 Strong positive attitude 3 1 8 4 9 5 7 Strong positive attitude 3 4 9 6 7 7 8 8 7 8 8 9 9 9 8 9 9 9 9 9 9 9 9 9	3	0	æ	2 assigned	3	0	œ	3 assigned
2 Medium negative attitude 1 1 2* 1 3 4* 5* 5* 4* 5* 7 7 7 7 7 4* 5* 7 8	-	3	1	Strong negative attitude		7	*!	Pleasant to have had no experience
3 Weak negative attitude 1 3 2** 4 Weak neutral attitude 2 2 4 5 Medium neutral attitude 2 3 5 6 Strong neutral attitude 2 1 5** 7 Weak positive attitude 3 2 7 8 Medium positive attitude 3 3 8 9 Strong positive attitude 3 1 8** 1 7 Weak positive attitude 3 1 8** 1 7 Meak positive attitude 3 1 8** 1 8 Medium positive attitude 3 1 8** 1 1 2 4 9 2 3 4 9 3 4 9 4 9 5 6 6 6 7 7 7 Meak positive attitude 3 1 8** 8 Medium positive attitude 3 1 8** 8 Medium positive attitude 3 1 8** 9 Content attitude 1 weak intensity 1 never have had experience 1 2 2 4 6 3 4 9 4 9 7 7 7 7 7 8 8 7 7 9 9 10 1 1 1 1 11 1 1 1 1	1	2	2	Medium negative attitude	- -	1	2*	No experience
1 4 Weak neutral attitude 2 2 4 4 6 6 2 3 5 5 6 8 5 1 6 5 5 1 7 6 6 6 7 7 7 8 8 8 7 7 7 8 8 8 8 8 8 8	-	1	٣	Weak negative attitude		m	2%	In between to have had no experience
1					,	7		oupleasant to mave mad no experience
2 5 Medium neutral attitude 2 3 5 5	2	-	7	Weak neutral attitude	2	2	7	Uncertain but unpleasant experience
3 6 Strong neutral attitude 2 1 5 5 4 6 6 6 6 6 6 6 6 6	2	2	5	Medium neutral attitude	2	3	.,	Uncertain but in between experience
1 7 Weak positive attitude 3 2 7 7 8 Medium positive attitude 3 3 2 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2	3	9	Strong neutral attitude	2	7	5*	Unlikely to occur-see footnote
1 7 Weak positive attitude 3 2 7 2 8 Medium positive attitude 3 3 8 3 4 9 5 5 5 5 5 5 6 6 7 7 6 7 8 8 8 8 9 7 9 7 1 8 1 8 2 7 3 4 4 9 6 7 7 7 8 8 8 8 9 1 8 9 1 8 1 8 9 1 9 9 1 9 1					2	7	9	Uncertain but pleasant experience
2 8 Medium positive attitude 3 3 8 8 8 8 8 8 8 8 8 8 8 9 8 9 8 8 9 9 8 9 8 9 9 8 9 8 9	3	1	7	Weak positive attitude	3	2	7	Definite experience but unpleasant
2 Strong positive attitude 3 1 8% "Intensity" Alternatives 0 - no response 1 - weak intensity cral attitude 2 - medium intensity cral attitude 3 - strong intensity 3 - yes, have had this constitute 2 - uncertain whether have constitute 3 - strong intensity constitute 3 - yes, have had this constitute 3 - yes,	3	2	∞	Medium positive attitude	٣	3	8	Definite experience and in between
L" Alternatives "Intensity" Alternatives 0 - no response 0 - no response 1 - weak intensity 2 - uncertain whether have trial attitude 2 - medium intensity 2 - uncertain whether have itive attitude 3 - strong intensity 3 - yes, have had this	3	3	6	Strong positive attitude	3	-	**8	Unlikely to occur-see footnote
response "Intensity" Alternatives "Content" Alternatives "Intensity" O - no response 0 - no response 0 - no response 0 - no response 1 - weak intensity 2 - uncertain whether have 2 - itive attitude 3 - strong intensity 3 - yes, have had this 4 - experience 4 - strong intensity 2 - no response 3 - strong intensity 3 - yes, have had this 4 - experience 5 - experience 6 - 1 - no response 6 - 1 - no response 7 - no					3	7	6	Definite pleasurable experience
"Intensity" Alternatives "Content" Alternatives "Intensity" Alternatives "Intensity" Alternatives "Intensity" Alternatives "Intensity 1 - never have had experience 1 - never have had experience 1 - never have had experience 1 - never have 2 - nedium intensity 2 - uncertain whether have 2 - itive attitude 3 - strong intensity 3 - yes, have had this 4 - never had this 4 - never had this 5 - nedium intensity 5 - nedium intensity 5 - necettain whether have 5 - nedium intensity 5 - necettain whether have 5 - nedium intensity 5 - necettain whether have 5 - nedium intensity 5 - necettain whether have 5 - nedium intensity 5 - necettain whether have 6 - necettain whether have 7 - necettain whether 7 - nec	aprocedu	ر د						
- no response 0 - negative attitude 1 - weak intensity 2 - uncertain whether have 2 - neutral attitude 2 - medium intensity 2 - uncertain whether have 2 - positive attitude 3 - strong intensity 3 - yes, have had this 4 - neutral attitude 2 - nectrain whether have 2 - neutral attitude 3 - strong intensity 3 - yes, have had this 4 - neutral attitude 3 - strong intensity 3 - yes, have had this 4 - neutral attitude 3 - neutral attitude 3 - neutral attitude 3 - neutral attitude 5 - nectral a	'Cont	ent" Alterna	tives	"Intensity" Alternatives	'Cont	ent" Alternati	ves	"Intensity" Alternatives
- negative attitude 1 - weak intensity 1 - never have had experience 1 - neutral attitude 2 - medium intensity 2 - uncertain whether have 2 - positive attitude 3 - strong intensity 3 - yes, have had this 4 - positive attitude 2 - neutral attitude 3 - strong intensity 3 - yes, have had this 4 - never have had this 5 - positive attitude 3 - strong intensity 5 - never have had this 5 - neutral attitude 5 - n		o response				o response		0 - no response
- neutral attitude 2 - medium intensity 2 - uncertain whether have 2 - positive attitude 3 - strong intensity 3 - yes, have had this 4 -	1	egative atti	tude	l - weak intensity		ever have had	experience	
positive attitude 3 - strong intensity 3 - yes, have had this 4 -		eutral attit	ude	1	1	ncertain wheth	er have	2 - experience was unpleasant
3 - yes, have had this 4 -		ositive atti	tude	3 - strong intensity	<u>-</u>	ad experiences		3 - experience was in between
andinona						es, have had tl	his	
10111111111111111111111111111111111111						experience		

*It will be noted that the scoring procedure is not as logically sequential on level 6 as on levels 1-5. The difficulty arises from on the basis of the scoring procedure used on levels 1-5. Because of difficulties encountered in changing entire computer programs to adjust for the additional intensity variable on level 6, it was decided to "program in" the fourth intensity alternative to the already existing programs and the scoring procedure shown above for level 6 is the result of this decision. The combinations with asteriks above are extremely unlikely to occur other than through chance error because of the inherent logical contradictions in these combinations. It will be noted that remaining combinations maintain the same negative-to-positive direction and range (1-9) as the scores on levels 1-5. Thus, the scoring system for level 6 represents a compromise between the ideal and the practical the additional "intensity" alternative on level 6 not found on levels 1-5 and from the fact that the analyses were all programmed (adapted from Harrelson, 1969).



<u>Variables</u>

All variables of the ABS-MR are scored such that a higher numerical score represents a greater amount of the variable:

- 1. Higher attitude "content" scores indicate a more favorable or positive attitude.
- Higher attitude "intensity" scores indicate greater intensity or certainty.
- Higher efficacy scores indicate a sense of greater control over man's evnironment.
- 4. Higher knowledge scores indicate more factual knowledge about mental retardation.

The concept or continuum implied in the contact, demographic, change orientation, and education variables (numbers 18-36, Table 6) can be ascertained from examining the content of the items in the ABS-MR questionnaire in Appendix A.3.

The scores of all the variables can be analyzed from two viewpoints:

(a) in comparison to the range of scores possible on the variable - i.e.

contained in Table 6 and (b) by comparison to norm groups in tables in

Appendix A.5.

Action) differ from subscale: 1-5 and that scores on intensity for subscale 6 also differ from the other intensity scores. Examination of the individual items in subscale 6 indicates that some have only two alternatives on content rather than three as on the other five intensity subscales.

The "combined" content-intensity range-of-scores is presented in Table 7 and the data will be analyzed both by attitude content-alone

¹Other groups are being gathered and will be available on request. The author requests users of the ABS-MR to forward additional norms to him for distribution to others on request.



and by combined content-intensity in the forthcoming book (see page ii) to enable a user of the ABS-MR to have norm comparison groups by either procedure.

ABS-MR Instrument Limitations 1

For a number of reasons, among which may be counted the press of the experimental nature of the scale development aspects of the research and the newness of the facet theory technique, which precluded falling back on established research for guidance, several shortcomings in the ABS-MR scale are readily apparent. Among these shortcomings or limitations may be mentioned the following: failing to control for (a) response sets, (b) social desirability, (c) homogeneous lateral struction or item content on all levels, (d) alternative permutations of the facet elements, and (e) the effect of the order of scale administration on correlation matrices.

One of the first problems in the development of the ABS-MR scale revolved around the assignment of response weights. The question essentially was: "which is the 'best' or most favorable response--to say that the mentally retarded are equal to or superior to other people in some positive manner or, stated differently, which is the 'best' attitude--the most realistic one or the one denoting the most positive evaluation without necessarily being grounded in reality considerations?" It was decided finally to weigh the items on a negative to positive evaluative dimension without concern for which is necessarily the most "realistic" response since there seemed to be more inherent difficulty in defining "reality" in this regard than in defining "positive evaluations." Thus, the most "favorable" response is not always the most "realistic" response.



¹Credit is due to Harrelson (1969) for much of this section.

It was decided that three alternatives would generally be presented to each question, one alternative suggesting a negative evaluation, one a neutral evaluation, and the third a positive position. Ideally, the questions and responses would have been worded so that the negative, neutral, and favorable responses would have been randomly assigned to the three numbered alternatives. Thus ideally, the most favorable response on one question would be alternative 1, while on another it would be alternative 3, and so on in a random fashion. Because of the press of time and logistical problems in cross-cultural organization of the data and computer programming, however, the responses were set up so that alternative 1 always represented the least favorable response, alternative 2 always represented a neutral position and alternative 3 always represented a favorable position. In such a scheme there exists, needless to say, a real danger of error due to response sets, or the tendency of some of the subjects to answer all of the questions in a similar fashion independent of the content of the particular item. However, the format of the items were such that the respondant alternatively answered attitude content items and intensity responses to the item. The format of the answers were designed to 'break up" response set. The fact that the simplex was obtained so often is also evidence that response set was not determining.

Attitude scales of this type are also susceptible to the analagous pressure of social desirability influencing various responses. This problem has been extensively discussed and the only way out of this dilemma with an instrument of this type appears to be through guaranteeing the subjects complete anonymity. Whether or not this procedure represents an adequate solution to the problem, however, remains a moot question.



It has also been noted in the development of the ABS-MR scale that the lateral struction or item content was not as well controlled as the joint struction or attitude level. This was particularly true with regard to Level 5 which was not structured on the lateral dimension at all. Lateral struction was also relatively uncontrolled on the other levels of the ABS-MR, which is to say that the various sub-scales or levels include items of different content so that the same content does not necessarily appear on all levels. Hamersma (1969), in a study of racial attitudes, employed an instrument based on Guttman facet theory in which the content of each attitude item is repeated across all six levels or subscales, with the item being altered only to fit the structure (joint struction) of the different levels. In this manner, the item content was more easily assessed than in the present research. The fact that the simplex was obtained in so many instances with the ABS-MR indicates, however, that the "unstructured" nature of the content was largely overridden by the more powerful structioning contained in the directions for each of the six levels of the ABS-MR.

It was also previously noted that multiplication of the two elements in each of the five joint struction facets yielded a possible 32 combinations or permutations of elements. The six level permutations of the ABS-MR scale were originally selected primarily through subjective judgment. Maierle (1969) has extended research in this area and found that of the 32 permutations which might be formed, only 12 were semantically consistent. Maierle found that varying numbers of these permutations belong to different levels; that is, if a level is defined by the number of strong or weak elements found in the attitude items of that level, then one permutation exists on Level 1 of the ABS-MR, three on Level 2, four on Level 3, two on Level 4, and one permutation each on Levels 5 and 6.



The violations of simplex orderings previously noted in the standardization data may have been due in part to the fact that four permutations are possible on Level 3, the level on which most of the violations of simplex ordering have been found to date.

Another question related to simplex ordering which had been unanswered until Maierle's (1969) research has to do with the effect of the order of scale level administration upon the resulting correlation matrix. In the present study, as in all of the previous research in this area, all of the data have been obtained from administration of various level member subtests in the same order, i.e., all items of Level 1 have been presented first, all items of Level 2 presented second, and so forth. Maierle (1969) randomly varied the order of scale level presentation of a new Guttman facet type attitude scale to a large group of subjects and found that a better simplex approximation was obtained when correlations were plotted according to theoretical relationships than according to order of administration, thus lending further support to the theoretical assumptions involved in the ABS-MR.

FACET THEORY SCALE CONSTRUCTION

Guttman's facet theory implies a different approach to scale construction than the usual "item analysis, reliability, and validity" approach. The mapping sentences of Figures 1-3 impose a semantic meaning on the content of the items, hopefully an "ordered" one, and the paradigms of Tables 3 and 4 specifically impose a structioned ordered meaning system for the relationships between the six scale levels.

As developed more fully in Chapter 3, the Cartesian product of the five/two-element/facets of Table 3 yield 32 possible profiles. As shown in Table 4, six of these profiles were chosen as psychologically relevant,



Figure 1

A Mapping Sentence for the Facet¹ Analysis of Attitudes Toward Mentally Retarded Persons.

(A) Changaterinties	persons with who are Al moderate retardation Al mid retardation Al social maladius retering Al social maladius retering Al physical disabilities Al physical disabilities Al non-mentally retarded	(E) Comparative Treatment Comparative	El Less than Piself E2 same as P2 normals E3 more than P3 others Dy (at)	(1) <u>Goals</u>	II self advancement II vocational development of II social behavior In national development		Mithin each facet as these attitudes <u>toward mentally</u> retained	Actors	13 7 6 4
(Y) Referent	Yl mentally retarded YZ socially maiadjusted YZ socially maiadjusted YZ bind YB desf YB Orthopedic Y6 gifted	(C) (D) Valuation Treatment	Cl should be Dl educated D2 employed D2 should be D3 solated D3 solated D4 prevented D5 socialized D6 studied D6 studied Cleared Clear	(H) <u>Purpose</u>	H1 protection H2 advancement toward the goal	(K) Priority	(K2 low MIThin each facet as the persons are newford the	(N) (O) Contact and Knowledge factors	(N1 amount) (01 amount) (12 kind) (13 alternatives) (03 when acquired) (14 alternatives) (15 when acquired)
্যে কুলিন্তু (X)	X Tryesic A Seconding to Delleve or feel that By group	(B) Causes Valu	B1 hereditary (genetic) C1 arm B2 developmental B3 fetal injury B4 congenital B5 post-matal trr.ma B5 post-matal trr.ma B6 post-matal trr.ma B7 unspecified	(0) Supplier	G parental of parental of the purpose of C state aid of federal aid of federal aid of the purpose of control o	(J) Valence	J1 favorable J2 neutral J3 infavorable valence with priority	(L) (M) Demographic Social-psychological	L2 age M2 value structure L2 income M2 religiosity L4 social status M3 change proneness L4 cetera

The facets were evolved in cooperation with twenty practicing school psychologists who were working primarily with the mentally retarded and who were in a graduate seminar at Michigan State University; Spring, 1967. The content validity of the appropriateness of the facets (A through I) can be assumed as these psychologists stated that these facets represented the major issues in their work with the mentally retarded.





Figure 2

A Mapping Sentence^l for the Facet Analysis of Joint² and Lateral Struction of Attitudes Toward Specified⁴ Persons.

(E) Domain of Actor's Behavior	(e ₁ symbolically) would ought (e ₂ operationally)	QJ.	level of importance under condition (y)		valence toward "specified" persons.
(D) Actor	clothers pop. as a whole non-disabled parents of disabled Negro, Jew, etc.	(G) Importance	involving { g1 high g2 mcdium g3 low	(K) Valence	trait $\begin{cases} k_1 \text{ positive} \\ k_2 \text{ negative} \end{cases}$ ility)
(B) Referent Behavior	$\left\{ egin{array}{ll} b_1 & \text{belief} \\ b_2 & \text{overt} \\ \end{array} ight. \left\{ egin{array}{ll} the \\ actor \\ \end{array} ight.$	(F) Life Situations	personal traits primary group relations recreation education employment health, welfare, & legislation sex and family secondary group relations,	(J) Trait Level	(j) attributed trait (e.g. handleap) j2 actual trait (e.g. disability)
(A) Referent	others pop. as a whole non-disabled parents of disabled Negro, Jew, etc. self		"specified" (12 pri persons in (13 rec formall (15 em formall (17 sex) (17 sex)	Trait Type	their (i) cognitive (i) affective (i) (physical) (behavioral) (coping)
Refe	Subject (x) attributes to to referent a self	(D) Actor's Intergroup Rehavior	d ₁ compares compare (with) d ₂ interact; with specially help hire respond to (feel)	(H) Evaluation Process	h with respect to h because of h despite

¹Based on mapping sentence of March 7, 1968.

Pacets "A" through "E" denote Joint Struction or level.

John E. Jordan Michigan State University Louis Guttman Israel Institute for Applied Social Research August 10, 1966



³Faceis "F" through "J" denote attitude content or Lateral Struction. The ordering system has not yet been developed for Lateral Struction as for Joint Struction.

Any person or social group such as aged, blind, alcoholic, Negro, national or ethnic group may be substituted for the disabled.

FIGURE 3

A Mapping Sentence^a of the Joint, Lateral, and Response Mode Struction Facets Used to Structure the Attitude Behavior Scale-Mental Retardation

JOINT STRUCTION

				25			
(E) Domain of Actor's Behavior	e_1 hypothetically e_2 operationally		(H) Evaluation Process	h ₁ with respect to h ₂ because of (their) h ₃ despite		(L) Intensity	l low 12 medium (intensity) 12 high
(D) Actor's Intergroup Behavior	<pre>d₁ compare (s) d₂ interact (s)</pre>		Evaluati	(level of hl with importance) h2 despi	RESPONSE MODE STRUCTION	H)	(valence and)
(C) Actor	(that c_1 others the) c_2 self	LATERAL STRUCTION	(G) Importance	51 high 52 medium 53 low	RESPO	(K) Valence	k negative (with) k neutral K positive
(B) Referent Behavior	(the) $\frac{b_1}{b_2}$ experience	LATER	(F) Life Situations	personal traits primary group relations (involving) recreation education employment health, welfare and legislation sex and family secondary group relations		(J) Trait Level	J ₁ attributed handicap J ₂ actual disability (1
(A) Referent	a ₁ others a ₂ self		Life	fl person fl primar fl recrea fl employ f health f sex an fl sex an			navioral
	(Subject attributes to)			(with the mentally retarded in)		(I) Trait Type	1 cognitive 12 affective 13 physical-behavioral

 $^{\rm a}{}_{\rm Adapted}$ from Harrelson (1970)



potentially capable of instrumentation, and possessing a specific relationship between themselves - a simplex one.

These six profiles of Table 4 are ordered such that level 1 < 2 < 3 < 4 < 5 < 6 or Societal Stereotype < Societal Norm < Personal Moral Evaluation < Personal Hypothetical Action < Personal Feeling < Personal Action. Guttman (1959, p. 320) states that "according to scale theory, ordering the profiles (our six subscales) also implies a formal ordering of the categories within each facet." The ordering of level 1 < 2 < 3 < 4 < 5 < 6 implies formally the following simultaneous orderings: $a_1 < a_2$, $b_1 < b_2 < \dots < a_n < a_2$.

Guttman suggests a common semantic meaning: a progression from a weak to a strong form of behavior of the subject vis-a-vis the attitude object - in our case the mentally retarded. Examination of Table 3 indicates the rationale of this ordering system.

- Facet A the referent "other" is weaker than "self" in being less personal.
- Facet B "belief" is weaker than "action" in being "passive" rather than "active."
- acet C referring to the behavior of one's "self" rather than that of "others" is stronger in that it implies personal involvement.
- Facet D "comparative" behavior is weaker than "interactive" behavior since it does not imply social contact; a comparison is more passive than interaction.
- Facet E "symbolic" behavior is weaker than "operational" in that it does not imply acting out behavior.

The above analysis is restricted to the ordering implied in the five facets of Table 3 - what Guttman is now calling joint struction. However, an additional question can be asked - Is it possible to establish an ordering principle so that the item content itself can be structioned or "ordered" with some explicit a priori semantic meaning; i.e. rather than attempting to a postori evolve the meaning by some procedure such as factor analysis?

Roleach (1968) has independently developed and made explicit the idea implied in the Jordan-Guttman paradigm of Figure 2 - the facet "y" of



"condition" in Figure 2 is equivalent to Rokeach's "situation;" one could also argue that the entire lateral dimension of Figure 2 (facets F-J) is equivalent to Rokeach's "object specificity."

The rationale used in the selection of the item content of the ABS-MR attempted to "order" the item content via three principles:

- Ego involvement: Cognitive-affective. Is the "attitude object in situation y" dealt with cognitively or affectively?
- 2. Social distance: distant-close. Is the "attitude object in situation y" distant or close to one's self?
- 3. Relevance: low-high. Is situation <u>y</u> important to the subject?

 Consistent with the above discussion of the weak-strong principle implied in Table 3; a positive or stronger attitude would be expressed by a subject who "agreed with or chose" items that dealt with the mentally retarded in "highly important situations that involved the self in close interpersonal action."

FACET THEORY DATA ANALYSIS

Two types of data analysis are indicated: (a) an analysis of the facets across the six levels, i.e., was the simplex obtained and (b) an analysis of the scalar nature of the content within each of the six subscales. The first analysis deals with the joint dimension and the second with the lateral dimension (Jordan, 1968). Table 8 contains the simplex data for the three test development samples, Table 9 contains additional data on the meaning of simplex analysis and Appendix A.5 contains the simplex results on the other samples.

Joint Analysis

Joint struction refers to the difference between subscales or levels, on facets A through E of Figures 1-3. Six additional facets - F through K - were added to differentiate item content within levels. These



Table 8

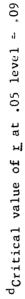
Analysis of Simplex Correlations^a of the ABS-MR Test Development Data for the ED 200, Belize, and SER Samples^b

		ED 200 - 633 cample		Relise - 523 sampled		SER - 88 sample
Descriptive	_	בת המה הכם מחק תם		חבדדקה כבל המיילדה		
Term		1 2 3 4, 5 6	_	1 2 3 4 5 6		1 2 3 4 5 6
		ا ــا		Original 3 ² = .858		<u>Original</u> Q ² = .974
Societal Stereotype	7	matrix	1	matrix	_	matrix
Societal Norm	7	1.8 44	2	22 8.3	7	56 8.5
Personal Moral Evaluation	ო	05 21	3	11 32	<u>س</u>	17 34
Personal Hypothet, Action	4	<u>15</u> 21 55	7	21 28 39	7	
Personal Feeling	5	17 12 19 38	5	17 06 19 31	2	04 13 08 24
Personal Action	9	01 04 05 19 22	9	13 10 15 32 16	9	01 05 04 13 21
		Best $0^2 = .946$		Best $Q^2 = .859$	_	Best $Q^2 = .974$
		matrix	_	matrix	7	matrix
Examine each matrix for	7	44 8.2	7	22 8.4	7	56 8.6
	<u>س</u>	05 21	Ж	11 32	٣	17 34
" "order" of levels	∹t	15 21 55	7	21 28 39	7	10 12 48
	2	17 12 19 38	2	<u>13 10 15</u> 32	2	04 13 08 24
	9	01 04 05 19 22	9	17 06 19 31 16	9	01 05 04 13 21

aReversals are underlined.

 $^{\mathrm{b}}\mathrm{See}$ text for sample description.

Critical value or \underline{r} at .05 level = .08



eCritical value of \underline{r} at .05 level = .18

 $Analysis\ of\ Theoretical\ Correlations^a$ of "Perfectly Ordered" Matrices With Equal and Unequal Differences Between Correlations

Descriptive Term		Unequal Differences		Equal Differences	Equal Differences	ses
Matrices are "Scrambled"	Scrambled	Original $0^2 = .40$ matrix 98 9.1 20 55 9.1 87 63 07 47 80 99 28 72	Scrambled	Original Q ² = .561 matrix 90 9.3 70 80 90 80 60 60 70 90 50 80 90 90 70 80	Original $Q^2 = \frac{0 \text{riginal } Q^2 = \frac{60}{40 \cdot 50} - \frac{60 \cdot 20}{30 \cdot 40 \cdot 60 \cdot 60 \cdot 30}$	= .686 matrix 9.5
Matrices are "Ordered"	1 2 3 4 6	Best Q ² = .868 matrix 87 9.2 63 98 28 47 80 07 20 55 99 02 13 37 72 93	1 2 3 4 6	Best Q ² = .994 matrix 90 9.4 80 90 70 80 90 60 70 80 90 50 60 70 80 90	Best $Q^2 = .968$ mat 60 4 30 50 60 5 40 40 50 60 6 20 30 40 50 60	968 matrix 9.6
Levels		123456		123456	12345	9

^aReversals of order are underlined.



struction. The complete mapping sentence for the family of scales constructed, or to be constructed, on this a priori basis is given in Figure 2. The attitude object of interest, in this monograph, the mentally retarded, is simply substituted in Figure 2. Thus, every item on every level of the ABS-MR scale corresponds to a combination of elements of each and every facet A through K of Figure 2. The ordering system for lateral struction, however, has not been developed as fully as has the system for joint struction.

The results from the SER graduate students (Table 8) form an approximate simplex as predicted from Tables 4 and 22. Contiguity theory also states that the correlations between the six levels should decrease in relation to the numbers of steps that two levels are removed from each other. Examination of Table 8 indicates this to be as predicted: the correlations are in the predicted order (Column 1) for the SER sample; the ED 200 sample has two exceptions; and the Belize sample has one exception. It is also interesting to note that the correlations between Levels 3 and 4 for the SER sample was 48 whereas it was only 34 between Levels 2 and 3. Apparently the SER students saw a closer relationship between how others should behave and their own likely behavior than they did with regard to how others should behave and how they themselves actually do behave toward the retarded.

Kaiser (1962, p. 155) suggests a procedure for testing a simplex approximation: "for scaling the variables of a Guttman simplex...... the procedure.....orders the variables. A measure of the goodness of fit of the scale to the data is suggested."

Kaiser's approach may be seen as performing two functions: (a) a "sorting" of virtually all possible adjacent pairs of matrix entrees so



as to generate the "best" empirically possible simplex approximation; and (b) an assignment of a descriptive statistic, Q^2 , to specified matrices. The index Q^2 is a descriptive one, with a range of 0.00 to 1.00.

A computer program was developed which (a) re-ordered the adjacent pairs of level members of each matrix, by Kaiser's procedures, so as to generate the best empirically possible simplex approximation; and (b) calculated Q^2 for the hypothesized ordering and for the empirically best ordering of each matrix.

At the time of the research completion, appropriate <u>likelihood ratios</u> for measuring goodness of fit were not available. Mukherjee (1966) suggests a method which appears appropriate for matrices of equally spaced correlations, but neither our theory not the actual data suggest that the matrices in the present study have equally spaced entries. Harrelson (1969) discusses the Q^2 method in detail.

The Q^2 values for the ED200 sample (Table 8, matrix 8.1 & 8.2) were the same (.94) for the hypothesized order and the best order; i.e., the best order for the empirical data of the simplex was the order set forth in the six-level theory of Table 4.

The Q^2 values for the Belize sample (Table 8, matrix 8.° & 8.4) were: (a) hypothesized order: .858; and (b) best order: .859. Examination of Table 8 indicates Levels 5 and 6 are reversed in the "best" order of the Belize data but that the increase in the Q^2 value was minimal.

The Q^2 values for the SER sample (Table 8, matrix 8.5 & 8.6) were the same (.97) for the hypothesized and the best order; as it was for the ED 200 sample.

While there presently is no significance test available for the values of the Q^2 test, examination of Tables 8 and 9 gives some cues to the relationships between the absolute value of Q^2 and: (a) the



"ordering" within the simplex matrix, (b) the equal-or-unequal nature of the differences between the correlations, and (c) the absolute size of the correlations.

As indicated in Table 9 (matrix 9.4) the highest Q^2 value is for an ordered matrix containing both equal-interval and largest correlation values. Table 8 contains the Q^2 values for the three test development samples for the ABS-MR. The ED 200 sample contains four reversals (matrix 8.1) and the Q^2 is the same for the obtained simplex and a "best" one obtained by the Q^2 procedure (Matrix 8.1 & 8.2). In Hamersma's (1969) study "six-reversals" were accepted as the maximum possible for a 6 x 6 data matrix to contain and still be accepted as "approximating" a simplex. By the "six-reversal" criteria a Q^2 value of .60 would appear minimal and preferably a value of .70 for a 6 x 6 matrix to be acceptable as a simplex.

The simplex results of Table 8 and those in Appendix A.5 lend support to an hypothesis of a cross-cultural and <u>invariate structure</u> between the attitude-behavior scale levels of the ABS-MR. The data also suggest that age and experience bring congruence between what one expects of others and one's self; e.g., the difference in correlation between Levels 3 and 4 as opposed to that between Levels 2 and 3 was much greater for the regular ED 200 education students (Table 8) than for the graduate SER students. The latter are older and have more experience than the former. Both, however, saw themselves hypothetically as doing what was "right" more than they saw others doing so.

The difference between Levels 3 and 4 as opposed to Levels 2 and 3 was less in Belize although in the same direction. The entire simplex in Belize is more restricted and homogeneous, which is what is expected in underdeveloped societies since such societies are less differentiated



(Foa, 1965). It should also be noted that Level 3, the Personal Moral Evaluation level, was involved in many of the instances in which the simplex ordering was not maintained. Apparently the implications of Level 3 are more subtle and difficult to differentiate. Level 3 (Table 17) also has more permutations or level members, and thus finer gradations of meaning, which may make it difficult for respondents to differentiate between the levels.

Lateral Analysis

Multiple Scalogram Analysis (MSA-I) of the data within subscale levels agreed essentially with the semantic content postulated by the facet theory of Figures 1 and 2. Facet theory, in conjunction with the newer multidimensional (non-metric) Guttman-Lingoes computer program (Bloombaum, 1968; Lingoes, 1966), allows one to examine the profiles of individual subjects or groups of subjects who have the same profile.

Most of the previous methods of analysis accounted for the individual subject only indirectly via the correlation matrix. The newer multidimensional scalogram programs by Guttman and Lingoes represents the subjects as points, variables as partitions, and categories of the variables as regions of partitions (Guttman and Schlesinger, 1967, p. 46)

The space diagram (See Bloombaum, 1968, and Jordan, 1968, for examples) generated by the MSA-I analysis must be interpreted, and for this an <u>a</u> <u>priori</u> facet theory of content is useful and/or necessary. However, even when there is no <u>a priori</u> theory of content, the MSA-I can be used empirically to ascertain structure and perhaps suggest hypotheses for theory construction and/or testing. Tables 3 and 4 depict the facets and elements

It is planned to do a full analysis by Guttman non-metric methods in the forthcoming book. See page ii.



used in arriving at our six "levels" of attitude. Two continua run through the structure: verbal-to-action (cognitive-to-affective) and other-to-self. Level 1 represents the verbal-other pole and Level 6 the action-self pole.

CONVENTIONAL SCALE ANALYSIS

<u>Reliability</u>

Since the Guttman non-metric approach to attitude scale content analysis is relatively new, standard procedures of item analysis and validity assessment were also employed in the development of the ABS-MR.

Item analysis indicated that the items worked fairly well in terms of inter-item correlational patterns and item-to-subscale correlations. The item-to-subscale correlations for the test development data are contained in Tables 11 and 12. Reliability estimates for Levels 1-6 were obtained by a variation of the Hoyt (1941, p. 153-160) method described by Winer (1962). This method used analysis of variance to produce a reliability coefficient equivalent to the Kuder-Richardson measure of interwal consistency. The results are contained in Table 10. By usual psychometric standards the ABS-MR can be regarded as reliable. In fact, the reliabilities reported in Table 10 compare favorably to those of many tests used for individual diagnosis, evaluation, and selection described by Anastasi (1961).

Inspection of Table 11 enables one to analyze the relationships of the individual items within each subscale to the total score of that subscale, and inspection of Table 12 indicates the degree of effectiveness of an item across the three samples: The closer the three correlations are on a specific item for a designated subscale the better that item is judged to work "cross-culturally."



Table 10

Reliability Figures for the Test Development Samples

	Re	search Sample	
Level	ED 200	Belize	SER
1	.73	63	.74
2	.83	. 75	.82
3	.69	.60	. 64
4	.79	. 79	.79
5	.71	.76	.85
6	. 67	.76	.78

Validity

Content validity may be assumed since the content of the items was evolved in cooperation with practicing school psychologists (Figure 1) in the field of mental retardation. Facet theory also guided the selection of items and thus insured that the item universe was sampled.

Construct validity: Inspection of Table 12 indicates adequate similarity between most of the three sets of correlations for the ABS-MR test development data. Tables 8 and 9 also contain supportative construct validity data, since the postulated semantic structure (i.e., Table 4) and the obtained statistical structure (i.e., the simplex) essentially agree. These data can be regarded as evidence of construct validity and an accolade for facet theory. The scale level "ordering" of 1 < 2 < 3 > 4 > 5 > 6 in several nations is further evidence of construct validity and cross-cultural invariance.



Concurrent validity may be inferred from the fact that the older, more experienced, and more knowledgable test development sample (the SER) also scored more positively toward the mentally retarded. Data were gathered for the three test development samples on 22 predictor variables (Numbers 15-36, Table 13) which offer considerable "correlational" evidence of the validity of the ABS-MR content in that groups with known characteristics responded as expected. Additional data on other groups are contained in Appendix . 5.



Table 11 Item to Subscale Correlations for Three Samples for the ABS-MR: Arranged by Sample

		S	ER S	amp]	.e ^a			EI	D. 20	00 Sa	mple	b		В	eliz	e Sa	mple	c
Ite \mathtt{m}^{d}					s u	ВЅ	СА	LE	S c	r	LE	V E	L S			· <u>-</u>		
	I	ΊΙ	III	IV	V	VI	I	II	III	IV	V	VI	I	II	III	IV	V	VI
1	41	63	46	38	43	64	30	61	41	49	53	44	23	58	53	53	31	56
2	16	61	41	57	53	74	14	65	48	53	48	49	45	61	50	62	42	56
3	27	65	44	45	60	43	32	57	43	58	55	43	41	58	43	56	54	45
4	32	64	33	51	58	43	37	69	48	52	57	45	16	56	54	52	41	50
5	55	61	42	52	44	00	51	57	29	65	48	37	41	52	21	56	47	45
6	24	62	54	49	53	54	35	64	42	59	56	49	17	58	31	59	45	55
7	43	30	51	54	74	51	50	24	44	65	66	47	34	13	31	61	44	45
8	51	47	29	71	61	56	50	49	30	55	53	40	53	52	15	61	37	55
9	60	57	39	66	74	46	56	37	40	57	63	37	51	48	27	60	47	42
10	62	68	33	63	59		54	66	36	52	51	37	51	46	20	55	48	36
11	51	22	54	51	55	10	55	38	51	47	42	36	38	41	50	48	47	39
12	34	29	43	60	72		24	47	50	57	56	33	47	33	45	53	50	38
13	43	30	47	61	64	17	44	46	51	50	18	30	31	31	52	42	49	-19
14	48	50	47	60	73	68	4 9	54	46	52	41	28	41	47	41	50	55	47
15	41	39	23	37	74	55	50	34	٠ ₄	56	46	36	29	29	30	57	53	39
16	51	50	17	55	64	37	41	50	29	54	20	33	42	48	21	46	39	36
17		34	18	-26	59	37	23	36	27	-14	43	46	38	31	15	07	44	54
18	40	57	34	-19	-46	42	44	48	33	-24	-06	32	29	32	28	12	52	41
19	50	38	3 9	-09	-47	14	38	39	37	28	36	40	17	24	30	15	47	36
20	50	27	15	16	51	52	40	19	06	23	-02	48	18	03	07	22	44	42

cBelize primary teachers. January 1968 N=573 dListed serially. See instrument for actual item numbers.



aM.S.U. graduate students. December 1967, N=88 $^{\rm b}{\rm M.S.U.}$ sophomore education students. January 1968, N=633

Table 12 Item to Subscale Correlations for Three Samples

for the ABS-MR: Arranged by Subscale or Level

				S A	M P	L E	an	d	s u	B S	C A	L E	S	r	L E	V E	L S	
Item		I			II			III		<u> </u>	IV			V		L_	VI	
	sa	Ep	ВС	s	E	В	s	E	В	s	E	В	S	Е	В	s	E	В
1	41	30	23	63	61	58	46	41	53	38	49	53	43	53	53	64	44	56
2	16	14	45	61	65	45	41	48	50	57	53	62	53	48	42	74	49	56
3	27	32	41	65	57	58	45	53	4 3	45	58	56	60	55	54	43	43	45
4	32	37	16	64	69	56	33	48	54	51	52	52	58	57	41	43	45	50
5	53	31	41	61	57	52	42	29	21	52	65	56	.44	48	47	00	37	45
6	24	35	17	62	64	58	54	42	31	49	59	59	53	56	45	54	49	55
7	43	50	34	30	24	13	51	44	31	54	65	61	74	66	44	51	47	45
8	51	50	53	47	49	52	29	30	15	71	55	61	61	53	37	56	40	55
9	60	56	51	57	37	48	39	40	27	6 6	57	60	74	63	47	46	37	42
10	62	54	51	68	66	46	33	36	20	63	52	55	59	51	48		37	36
11	51	55	38	22	38	41	54	51	50	51	47	48	55	42	47	10	36	39
12	34	24	47	29	47	33	43	50	45	60	57	53	72	56	50		33	38
13	43	44	31	30	46	31	47	51	52	61	50	42	64	18	49	17	30	-19
14	48	49	41	50	54	47	47	4 6	41	60	52	50	73	41	55	68	28	47
15	41	50	29	39	34	29	23	24	30	37	56	58	74	46	53	55	36	39
16	51	41	42	50	50	48	17	29	21	55	54	46	64	20	39	37	33	36
1-		23	38	34	36	31	18	27	15	26	-14	07	59	43	44	37	46	54
18	40	44	29	57	48	32	34	33	28	19	-24	28	46	-06	52	42	32	41
19	50	38	17	38	39	24	39	37	30	09	28	15	47	36	47	14	40	36
20	50	40	18	27	19	03	15	06	07	16	23	22	51	-02	44	52	48	42

am.S.U. graduate students. December 1967, N=88.
cM.S.U. sophomore education students. January 1968, N=633.
dBelize premary teachers. January 1968, N=523.
Listed serially. See instrument for actual item numbers.



TABLE 13

SAMPLE SIZES, MEANS, ADJUSTED MEANS, AND SIGNIFICANCE TEST RESULTS FOR THE ABS-MR1 DATA FOR THE ED 200^2 , SER 3 , AND BELIZE 4 SAMPLES

,	MINE	i			1	•						- 1	*	1				5.	
}		-	4	E IM	-	2	1	R	2	1	1-	1	1 197	2		110	:		
	. Stereo	ŝ	Z.	E.S	2	8	.e.	62	35.55	35.50	1	8.0	37.8	33.66	13.11		34.40	,000°	12 5, 12 1, 15 5
~	lora .	ς,	35.63	35.63	2	8	35.94	62	9.	£0.93	1		37.76	37.8	¥.13		¥.02	د 2000ء	\$ >4. 8 > 5
-	Borel	3	3	81.14	8	\$	8.3	33	\$.	45.53	ĩ		1.1	. 45.27	17 45,28		3.	8	3 > 1, 1 > 7
		ŝ	42.76	£.75	8	\$	45.27	523	41.98	10.54	4	£. 5	42.41 39	6 .1.20	13.07		8.	,000 >	5 7 1, 1 7 1, 5 7 1
	ĩ	ç	8,8	8	2	7 7	39.03	23	3	*	3	1	31.62	11.04	11 40.21		×	ŝ	
ند	Action	ę	27.33	17.11	2	32.60	27.53	ŝ	31.02	8	I	78.74	26,73	8.8	29.0X		\$.8	çası.>	N > F, S > E, N > 2, S > B
	. Total	63	22.73	22.25	2	130.27	224.68	ξ	24.99	235.14	i	111.45	277.75 398	8 230.52	230.99		37.62	× 000 ×	2 74 , 3 72 , 7 7 K
-	Stereo	3	17.04	5.	3	3.5	17.23	ã	£6.34	17.97	i :	\$	47.45 398	2.2	8.4.70		26.4	\$ OBC	K > F, S > F, E > F, E > 6
4130	410	ŝ	10.71	49.64	2	42.39	41.94		4.4	7.1	i	3	41.87 39	4.5.4	47.55		11.73	· 900°	2 74 , 1 7 1 , 1 C K
ġ	. Norel	6	45.19	45.18	¥	49.20	48.99	233	46.33	¥	ž	87.48	45.51	16.93			10.57	,íco >	H TO 1 ST E, 87 F, 57 E
=	24.6	5	.5.	\$	2	11.27	\$1.25	523	48.38	2.3	87.6		47.33	8 47.31	47.45		* ::	₹.000,	521, 871, 578
ä	Ž	633	45.82	45.01	2	3.	\$2.00	233	47.28	43.12	í	79	16 17 38	8 47.30	27.12		10.30	<.000.>	M > 2, 5 > 1, 8 > 1, 5 > 3
<u> </u>	Action	633	46.00	45.92	2	22.25	37.56	625	33.48	13.57	ž	38.33	39.51 39	41.99	17.61		117.31	(20n->	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ź	Total .	£3	264.78	264.30	2	174.11	:73.54	2	266.33	166.64	1	163.43	262,52 798	**	90.275 85		۲.	<: 0m)	H > 1, 5 > E, 5 > 6
á	Efficacy Cont.	3	8. ≈	23.55	2	1 2	23.04	ŝ	3.4	\$	ź	13.37	23,33 396	13.94	24.02	1	6.6	.000.≻	N 7 1 2 7 2 1 7 X
± 174	. Mittacary lat.	63	3.5	27.49	2	27.28	21.12	523	38.55	38.82	ŝ	13,61	27.50 398	8 28.55	18.62		3.1	<.0005	3 Y 1 8 Y 1 VY 2
.won		*	2.73	2.7		1 4	3.8	, 8	ş.	2.38		2.7	2.79 386	3	8.		1	. (20c.)	F28, 878, 828, 32
بع	D Amount	3	9	. 44	: 3	1.5	3.5	ş	1 4	7.40	ş	2.4.	2.49 390		i		3.	, oue >	S > 7. S > R
ž	Mr Awald	ç,	3.69	3.69	2	۲.	17.1	8	2.53	2.56	:	8	3.11 389	1,41		4 04.0	44.37		H > F, F > , E > E, ' > F
Ŕ	M lacone	ž	1.3	1.33	7	4.08	4.08	209	3	1.62	ģ	1.65	1.77 77.1	19:1	1.72		114.09	د يو،،	578,878,171
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∷ ∴	. 10 Amount	619	8:	1.85	2	č.:	3.95	3	3.26	3.76	ž.	6.	2.06 386		2,20 1,94		3.5	(ww) >	571, 871, 571
ij	F Pajor	ŝ	3.15	7.	•	7.	£.13	ţ	1.1	7.7	ä	3.27	3,23 386	, x	7.7		15.30	• 000 •	S72, 874, 57.7
≉	;	3	1.41	17.1	2		2.3	13	5	\$	ī	1.63	1.65 \$	1.0	1 1 1		; ž	ý00 v	THE STATE OF
zi	D house	21.9	6.4	10.4	2	4.83	19.7	64	9.0	3.09	1	3.65	3,69 393	3 1.73	3.12		9.5	<.000·>	521,121,523
, ž	. Beylaport.	QÇ 9	3	\$.	2	5	7.	Š	\$	19.4	3	į	4.22 395	3 1.62	3.8		116.93	, (00 V	124, 527, 121, 13
<u>;</u>	Let-Adber.	629	3	8.	2	۲,	2.7	8,5	5.5	#.	1 9	٤,	3,75 396	3.52		1.53	17.90	₹.00m	174, 57 F. 57 f
<u> </u> =	Self Change	3	3,7	×. ×	2	2.65	3.	3	2.42	: : 3	3	\$.5	7,49 797		2.43 2.42	!		6	5
	On 14 Per	633	2.98	2.58	2	2,93	2.91	520	7.	1.7	ã	2.7	1,19 39		1.70	, (2.1	62.30	₹.v00;	5 KE - 1 KE
, 714	. Blrth Control	Š	3.	3	2	3.57	3.58	\$16	2.6	3.5	3	1.1	3.13 347		3,10 3.06		13, X	<.4003	77H, 17 A, 14 E
		229	3.18	3.18	8	1.33	1.3	\$15	3.40	3.40	š	ž.	3,25 397		1.14		8 ,	,000 ×	N7 P. N P.
*Sur	Pol teaders	9	7.13	2.13	2	2.3	2.32	213	3.46	94.7	ž	7.78	2.27				4.37	*:000:>	Ĩ
<u> </u>	. Bale Adberence	629	8.	~	2	*	1.97	230	3.4	7.47	3	7.62	2.64 39		7.7	!	4	(300°)	171.578
, z	. Local Ald	623	3.03		2	1	3,14	2.5	*	*.	£3	, ,	1,00 195		1,04 3.03		3	Ţ	
11141 N	. Ted A14	678	2.95	\$6.5	2	7.43	*	ž	8.	*	2	8	2.40 396	2.5			£	7;	
		į	:	:	2	8	8	9	7.67	76.2	823	8	38	5.0	6,0		3	į	

Jabs.N. - attitude Bebautor Scalt.: Mental Metadation.
²N.S.O. graduate students in special reducation and rehibilitation, September, 1907.
³N.S.O. sophwore education majora, Jaousty, 1908.
⁸Melier (British Konduran) school teachers, January, 1908.

Chayter 3

FACET THEORY AND THE ABS-MR

The rationale for the development of the ABS-MR is contained in facet theory. The multiplication of facets ABCDE in Table 3 yields 32 combinations of elements. Maierle (1969) has shown in detail that not all combinations are logical because of semantic considerations. Tables 14 and 15 contain Maierle's complete listing of all such permutations. Following the original notation of Guttman (1959), weak elements have been assigned the subscript "1" and strong elements have been assigned the subscript "2" so that for example, the permutation 1 - 1 - 1 - 2 is that permutation having all wak elements except the final one. The particular order in which the permutations have been written in Table 14 was chosen to correspond to the ordering of facets proposed in Table 3, although the explanations which follow are not dependent upon that ordering.

Profile Derivation Procedures

At the time of construction of the ABS-MR scale, the element names "others" and "self" were used; however, the difference in element names does not directly affect the theory underlying the ABS-MR. If in place of the subscripts "1" and "2" are written letters to represent the element names (e.g., 0=others, B=believe, I=interact, P=operational) then Table 14 would appear as Table 15. Such an assignment of element names makes possible the "definitional statements" listed in Table 17.

Each of the 32 permutations listed in Table 15 can thus be assigned a "definitional statement," or expression in sentence form of the particular set of elements involved in that permutation. Thus "o-b-o-c-s-" may be read "Others believe others compare symbolically."



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Table 14

Permutations of Five Two-element Facets

Permutat i ons		Facet	s and Subs	cr i pts	ı —
	A	В	С	D	E
1	1	1	1	1	1
2 3	1	1	1	2 1 2 1	1
3	2 2 1	1	1	1	1
4	2	1	1	2	1
5 6	1	1	2		1
6	1	1	2	2	1
7	2	1	2	1	1
8	1 2 2 1	1	2 2 2 2 1	2 1	1
9	1	2			1
10	1	2 2 2 2 2 2 2 2 2	1	2	1
11	2 2 1	2	1	1	1
12	2	2	1	2	1
13	1	2	2	1	1
14	1 2 2	2	1 2 2 2 2	2	1
15	2	2	2	1	1
16	2	2	2	2	1
17	1	1	1	1	2
18	1	1	1	2	2
19	2	1	1	1	2
20	2	1	1	2	2
21	1	1	2	1	2
. 22	1	1	2	2	2
23	2	1	2	1	2
24	2	1	2 2 2 2 1	2	2
25	1	2		1	2
26	1	2	1	2	2
27	2 2	2	1	1	2
28		2	1	2	2
29	1	2	1 2 2 2	1	2
30	1	2	2	2	2
31	1 2 2	2 2 2 2 2 2 2 2 2 2	2	1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
32	2	2	22	2	2

 $^{^{1}}_{\mbox{Subscript "l" indicates weak element; "2" indicates strong element.}$



Table 15

Permutations of Five Two-element Facets and Basis of Elimination

Per	mu <u>tati</u> c	ns		Facets	and Sub	scripts		Basis of
	In	In		_				Elimination ^c
ı.	Table	Table	A	В	С	D	E	
No.b	<u> 17</u>	4						
1	1	Level l	0	Ъ	0	С	s	
2	2	Level 2	0	Ъ	0	i	s	
3	3		i	b	0	С	s	
4.	4	Level 3	i	Ъ	0	i	s	
5	5		О	Ъ	i	С	s	
6	6		0	Ъ	i	i	s	
7	7		i	b	i	С	s	
8	8	Level 4	i	Ъ	i	i	s	
9			0	а	o	С	s	
10	9		0	а	0	i	s	
11			i	a	О	С	s	1 2
12			i	a	0	i	s	1
13			0	а	i	С	s	1 2
14			0	а	i	i	s	1
15			i	а	i	С	s	2
16	10	Level 5	i	а	i	i	s	
17			0	Ъ	0	С	Р	2 3 4
18			0	ь	0	i	р	4
19			i	ь	0	С	р	3 4
20			i	ь	О	i	Р	4
21			0	b	i	С	P	3 4
22			o	Ъ	i	i	P	4
23			i	Ъ	i	С	р	3 4
24			i	Ъ	i	i	P	4
25			0	a	О	С	р	2 3
26	11		0	a	0	i	P	
27			i	а	o	С	P	1 2 3 4
28			i	a	0	i	P	1
29			o	a	i	С	P	1 2 3
30			0	а	i	á	P	1
31			i	а	i	С	P	2 3
3 2	12	Level 6_	<u>i</u> _	а	i	i	p	

^aSee Table 3 for facets.

See text for explanation.



 $^{^{\}mathrm{b}}\mathrm{Numbering}$ arbitrary, for identification only.

C Logical semantic analysis as follows:

Basis 1: an "a" in facet B must be preceded and followed by identical elements, both "o" or both "i".

Basis 2: a "c" in facet D cannot be preceded by an "a" in facet B.

Basis 3: a "c" in facet D cannot be followed by a "p" in facet E.

Basis 4: a "p" in facet E cannot be preceded by a "b" in facet B.

Table 16

Five-Facet Six-Level System of Attitude Verbalizations: Twelve Hypothesized Level Members^a

	i c s c d e l	e ₁	p e 2		-
	o b	i i c2 d2	o i c ₁ d ₂	<u></u>	
c s d ₁ e ₁	i s d ₂ e ₁	o b a ₁ b ₁	o a a ₁ b ₂	i s d2 e ₁	i p
o i o a _l b _l c _l	o b o a la l	c s dl el	i s d ₂ e ₁	i a i a ₂ b ₂ c ₂	i a i a ₂ b ₂ c ₂
, a	s le s	b i 2 b ₁ c ₂	b i 2 b ₁ c ₂		
	b o c	s s s	.H .		
	i a2	b o i			
Level ^b 1	7	3 i	4	٧.	9

^aSee Table 3 and 17 for identification of letters within boxes; each box contains a symbolic expression of a level-member definitional statement.

^bAll profiles of any one level, following the Guttman and Jordan formulations, have the same number of strong and weak facets.



Five-Facet Six Level System of Attitude-Behavior Verbalizations:

Levels, Facet Profiles, and Definitional
Statements for Twelve Permutations

							(s	i		1	1	1
Descriptive Name ^C	** Societal Stereotype (group assigned group status)	Personally-assigned group status	** Societal Norm	Group-assigned personal status	** Personal Moral Evaluation (perceived values)	<pre>Self-concept (personally-assigned personal status)</pre>	Proclaimed Laws (group expectations)	Group identity (actual group feelings)	** Personal ypothetical Action	Actual group behavior	** Personal Feeling	** Personal Action
Definitional Statements ^b	Others believe others compare symbolically**	I believe others compare symbolically	Others believe others interact symbolically**	Others believe I compare symbolically	I Delieve others interact symbolically**	I believe I compare symbolically	Others believe I interact symbolically	(Others act) others interact symbolically	<u>I believe I interact symbolically**</u>	(Others act) others interact operationally	(I act) I interact symbolically**	(I_dct) I interact operationally**
PON	0					7				m	4	5
Facet Profile ^a Nod	o b o c s albicidie	tbocs	obofs alblc1d2e1	obics	1 b o 1 s a2b1c1d2e1	ibics	obiis	oaois	1 b 1 1 s a2b1c2d2e1	caotp	<u>i a i i s</u> a2b2c2d2e1	1 a 1 1 p a ₂ b ₂ c ₂ d ₂ e ₂
Level	-		7			۳. :-	, ;;,			7	עו	9

acf. Tables 14 and 15. Words in parentheses are part of redundant but consistent statements

** Permutations used in the ABS-MR.

 $^{\mbox{\scriptsize d}}\mbox{\scriptsize No.}$ - number of strong elements.

CAlternate names in parentheses indicate relationships of various level members.



^aCf. Table 16'for design for schematization.



Five-Facet Six-Level System of Attitude Verbalizations: Jordan's Set of Six Permutations^a

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S

permutations are possible. When the strong element of facet B is present, items written would be redundant if expressed completely--i.e., "I act I act..." But while a weak element in facet B-viz., "believe"--can be preceded or followed by either "others" or "I", no implication of thinking about behavior is present in the strong element, "act." Basis 1 for the elimination of some permutations, therefore, is expressed "an 'a' in facet B must be preceded and followed by identical elements, both 'o' or both 'i'."

Given the redundance implied by the strong element "act" of facet B, the actor's intergroup behavior (facet D) and the referent's behavior (facet B) must be consistent: they both refer to the same person or persons. If the referent and actor are acting (strong element of facet B), he or they cannot simultaneously be seen simply in comparison (weak element of facet D). Basis 2 for the elimination for some permutations is expressed "a 'c' in facet D cannot be preceded by an 'a' in facet B."

The domain of the actor's behavior (facet E) can be symbolic whether the actor's intergroup behavior is comparative or interactive, but the operational domain applies only to overt acts, so that, as <u>Basis 3 for the elimination</u> of some permutations, "a 'c' in facet D cannot be followed by a 'p' in facet E."

Finally, if the domain of the actor's behavior is operational (strong element of facet D), then the expression of belief (weak element of facet B) would seem inconsistent--i.e., the presumption would be that although the individual or group actually performs some intergroup action overtly (operationally), they only believe they so act and do not actually act (weak element, "belief," of facet B). Provision is made for the situation



in which an individual is not certain whether a particular item--of whatever level--applies: such provision is made in the answer foil "uncertain."

Note, however, that such uncertainty does not imply the concurrent action
and unawareness of action which would be implied by the combination of a

weak element, belief, in facet B, and a strong element. Derationally, in
facet E. The Basis 4 for the elimination of some permy actions, therefore,
may be expressed "a 'p' in facet E cannot be preceded by a 'b' in facet B."

The final column in Table 15 indicates in summary fashion which of the bases for elimination of permutations apply to which; rmutations. Twelve permutations remain semantically possible. Maierle extended the analysis (Tables 19-26) of the twelve permutations to show the relationships between all permutations and the six levels used in Table 4 in construction of the ABS-MR.

Sets of Permutations

Tables A.19-26 indicate the sets of permutations which fit the restrictions on "semantic paths." The tables depict the semantic profiles in several ways: (a) in the order suggested by the definitional statements (a - b - c - d - e) and (b) in the order in which facets are changed from weak to strong for that particular semantic path. The tables also indicate the level member name for each permutation included in the semantic path.

Definitional statements facilitate writing of appropriate attitude items for each level member as described above; on the other hand, listing the facets in the order in which they change within a particular set of element permutations or semantic path makes possible a clearer graphic representation (i.e., the simplex) of the successive nature of facet changes from weak to strong elements. As indicated above, semantic path "C" (TableA.22) is that set of permutations according to which the ABS-MR



was constructed. Semantic path "C" was chosen for three reasons: (a) psychological rationale and/or usefulness in the six subscales, (b) the simplex order between the six subscales, and (c) they were judged to be potentially capable of instrumentation. Table 4 also presents semantic path "C" in another way: each element in each level member is identified by facet letter and by subscript (1=weak, 2=strong); the successive nature of facet changes within the set of six types of attitude struction is again indicated.

In summary, the six levels or subscales of the ABS-MR were constructed to correspond to the facet design depicted in Tables 4 and A.22 and Figures 1 and 2. The six <u>level structure</u> or joint dimension was determined by Tables 4 and A.22, whereas the <u>item content</u> or lateral dimension was structured by Figures 1 and 2.

Intensity

Guttman and Foa (1951) have emphasized the importance of intensity measures in attitude scales, particularly with regard to the contact variable.

A single question ordinarily cannot distinguish between changes due to intensity and those due to direction. A change in response to a single question may be due to either factor, or to both. Since any single question is usually biased, as is easily seen from the theory of scale and intensity analysis, the use of a single question for the study of effect, or change, or even for comparing groups is quite inadvisable (p. 53).

Suchman (1950) has suggested that intensity of attitudes may be ascertained by asking a question about intensity immediately following a content question.

One form used for an intensity question is simply: "How strongly do you feel about this?" with answer categories of "Very strongly" "Fairly strongly," and "Not so strongly." Repeating such a question yields a series of intensity answers. Using the same procedure as for content questions, these are scored and each respondent is given an intensity score (p. 219).



This latter procedure was adopted to measure intensity of attitudes on the ABS-MR. On Levels 1-5, the three alternatives "not sure," "fairly sure," and "sure" are presented to the question "How sure are you of this answer?" for each item in these scales. A variation of this procedure was used on Level 6 to ascertain whether a reported experience with the retarded was "unpleasant," "in between," or "pleasant."

The alternatives to each content question (lateral dimension) are ordered in such a manner that the highest number reflects the most positive favorable, or "overfavorable" attitude.

THE ATTITUDE-BEHAVIOR SCALES

The ABS-MR is the first of a family of scales being developed under the direction of Jordan (1968) using the model presented in Table 4.

Other ABS's currently available are as follows:

- 1. ABS-BW/WN. Blacks toward Whites and Whites toward Blacks in seven areas:
 - (C) Characteristics (Personal)
 - (E) Education
 - (H) Housing
 - (J) Jobs
 - (L) Law and Order
 - (P) Political Activism (Racial)
 - (W) War and Military
 - (G) General (two items from each of above seven)
- ABS-SAF. "Africans"/Whites (in South Africa)
 (G) General, minus L, P, and W items of the AB\$-BW/WN
- 3. ABS-MP/PM. . . . Maoris/Pakehas (in New Zealand)
 - (E) Education
 - (G) General
- 4. ABS-MI or EDP. . . Mentally Ill or Emotionally Disturbed Persons
- ABS-DF Deaf
- 6. ABS-ABE. Undereducated Adults (Adult Basic Education)



- 7. ABS-CES Black VS White Cooperative Extension Service farm agents.
- 8. ABS-BL Blind
- 9. ABS-WD War Disabled (in Viet Nam)
- 10 ABS-DU Drugs (in process)

An ideal, complete research project, as Guttman (1959) has elsewhere suggested, would consist of observing a value for each subject on each varient of facets F through K for each of the six levels A through E. Guttman (1959) has further suggested that any coherent theory referring to empirical research can be expressed in a similar mapping sentence (Figure 4):

Lack of theoretical clarity as to the specifications of the facets of the mapping may be the situation that often impedes the connection between abstract theory and empirical work (p. 323).

Clearly the ABS-MR scale falls short of the ideal, complete research project suggested by Guttman. Nevertheless, it represents one of the few such attitude scales constructed on an <u>a priori</u> basis according to Guttman's facet theory.

Scale Development Summary

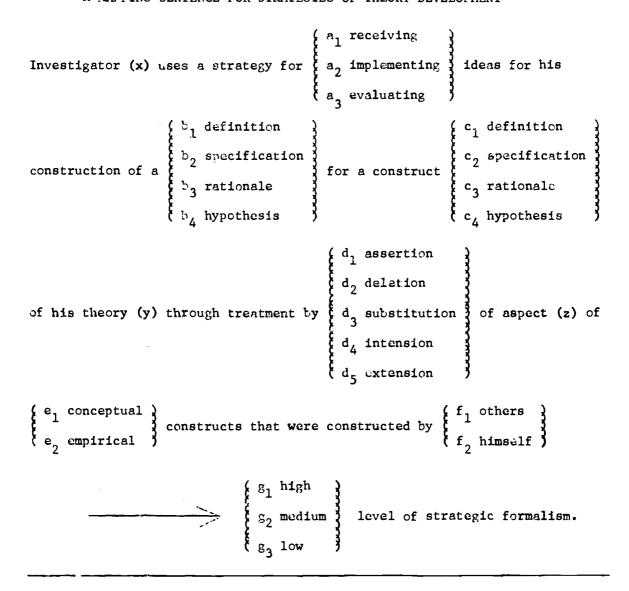
The facet theory approach to scale construction has been applied herein to the area of attitudes toward mentally retarded persons. It was postulated that attitudes involve not only object-specificity but situation-specificity and object-subject relationships: our attitude object was the mentally retarded, situations included education, personal characteristics, employability, etc., and relationships were specified between the object and the actor; the latter sometimes being "self" and sometimes "others."

Operational paradigms (Table 3 and Figures 1-3) were volved via a Guttman facet theory rationale to enable the specification of object-



Figure 4

A MAPPING SENTENCE FOR STRATEGIES OF THEORY DEVELOPMENT



A Condensation of the Sentence

INVESTIGATOR (:) / uses IDEA STRATEGY (a) / for his CONSTRUCTION OF (b) /
for CONSTRUCT (c) / of his THEORY (y) / through TREATMENT (d) / of ASPECT (z) /
of CONSTRUCTS (e) / of CONSTRUCTER (f) / ______ LEVEL (g) of strategic
FORMALISM.

An Abstraction of the Sentence



From Guttman (1970).

subject relationships (joint dimension) as well as situation content (lateral dimension) in each attitude scale item.

The research had five main substantive questions or purposes:

- 1. To test the simplex hypothesis concerning the object-subject relationship, i.e., Tables 3, 4, 17, and A.22. Six levels of relationship were selected for research.
- 2. To select relevant situations around which to specity the six relationships. The situations are specified in facet "D" of Figure 1 or facet "F" of Figure 2.
- 3. To test the effectiveness of selected variables as predictors of attitudes. Table 6 contains the predictor variables: values, contact, knowledge, demographic, and change proneness. In general attitudes toward mentally retarded persons were highly related to value orientation, knowledge, and contact. The data also indicate, in direct opposition to Zajonc (1968), that "mere exposure" or amount of contact per se is not sufficient to produce favorable attitudes.
- 4. To ascertain the ability of the ABS-MR to differentiate between groups having different degrees of favorableness of attitudes toward the mentally retarded. Tables 13 and Appendix 5 indicate the ABS-MR does differentiate as postulated.
- 5. To construct a scale with units that would be equivalent and comparable for cross-cultural research. The simplex for Belize (Table 8, matrix 8.3) and those in Appendix A.5 indicate the object-subject relationship is "ordered" about the same across diverse groups and nations.

The test development data indicate that the five purposes were essentially achieved: (a) that the ABS-MR attitude levels do exhibit a



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simplex structure, (b) that relevant object-situations were selected,
(c) that selected variables are effective predictors of favorable attitudes, (d) that the ABS-MR can differentiate between groups, and (e) that the ABS-MR is acceptably cross-culturally equivalent and comparable.

It is anticipated that further work with the ABS-MR will lead to a sporter version. Since this may be two or three years in development, the data on the longer edition are presented herein since attitude scales on mental retardation are currently rather inadequate and cross-cultural scales are largely nonexistent.

The theory and procedures presented herein will also still apply to the projected "shorter" edition of the ABS-MR instrument; only the number of items, and perhaps minor editing of some items, will change.

CHAPTER 4

DESIGN AND ANALYSIS PROCEDURES

The purpose of the study was to investigate attitudes of designated groups in different nations toward the mentally retarded. Accordingly, nations were chosen at varying levels of modernization, economic development, and cultural orientation. The design of the international study, therefore, called for samples from the same "interest groups" in different nations. Analysis procedures were chosen which permitted testing the relationships specified in the hypothesis.

SAMPLE

The sample of the study is contained in Table 27. The study was designed to use the following five groups:

- 1. Teachers of the mentally retarded -- SER
- 2. Regular school teachers ----- RST
- 4. Parents of mentally retarded ----- PMR
- 5. Employers/Managers--Executives---- MAN
- 8. Parents of non-retarded----- PNP

In some nations additional groups were used and in some nations some groups were not obtained for varying reasons. Selection of these five groups, whose attitudes were projected to be important in respect to the education, employment, and well being of the mentally retarded should make the study usefel to practitioners as well as scholars of attitude structure, content, and determinants, and hopefully shed light on attitude change theory.

¹"Any group that, on the basis of one or more shared attitudes makes certain claims upon other groups in the society for the establishment, maintenance or enhancement of forms of behavior that are implied by the shared attitude" (Ehrmann, 1958, p. 236).



Sample by Nation and ${\sf Group}^b$ for the Cross-cultural Mental Retardation Study $^{\sf C}$

							53		р ә
									1. chers etard arded
TOTALS	385	1,101	398	133	754	300	23	3094	Special ed./rehabil. Regular school teachers Prents of ment. retarded Maragers Students Faconts of non-retarded Professionals
12 ^d MED	;	1	1	;	88	;	;	88	Special ed./r Regular schoo Prients of me Managers Students Fagents of no
SPECIAL 11 DIA	1	!	1	1	34	!	;	34	b1-SER - 2-RST - 4-PMR - 5-MAN - 7-STU - 8-PNR -
10 ^d EDU	:	j I	}	1	633	1	1	633	rq
9 TEX	50	48	67	1	1	92	;	223	-school s
U. S. 8 MIC	;	:	41	;	!	33	;	74	Texas ED200 Students Diagnosticians-school ED 429 Students
Z KEN	20	54	į	20	!	;	į	124	- Texas - ED200 - Diagno - ED 429
9 9 NA	;	1	20	;	;	67	!	66	9-TEX 10-EDU 11-DIA 12-MED
5 ISR	74	!	12	!	:	77	23	153	via cy in
4 - GER	147	74	144	83.	;	69	1	517	- Israel - Yugoslavia - Kentucky - Michigan
3 COL	33	402	102	t 1	;	r 1	I I	537	5-ISR - 6-YUG - 7-KEN - 8-MIC -
2 BRA	31	;	1	30	;	29	;	06	i ji yı
1 ^d BEL	;	523	;	;	:	1	1	523	al-BEL - Belize 2-BRA - Brazil 3-COL - Colombia 4-GER - Germany
	1-SER	2-RST	4 - PMR	5-MAN	7-STU	8-PNR	9-PRO	TOTALS	^a 1-BEL - 2-BRA - 3-COL - 4-GER -

R.

CIran in process but not complete.

dSample 1, 10, and 12 were the test development samples.



ANALYSIS PROCEDURES

The Control Data Corporation computer (CDC 3600 and 6500) at Michigan State University was used to analyze the data. Table 28 contains the variable list of the study by IBM card and column.

Descriptive Statistics

Two frequency column count programs (Clark, 1964) designated as FCC-I and FCC-II were used. These programs were used to compile the frequency distributions for every item of the instruments. This procedure is often useful for selecting additional variables for analysis and for gaining a clinical "feel" for the data.

Correlational Statistics

In the CDC MD-STAT program (Ruble & Rafter, 1966), a great amount of data can be employed in one analysis. Separate analysis can be done for the total group and for any number of sub-groups or partitionings of the data. For each specified group, e.g., total, male, female, etc,. a number of statistics can be requested. Those used for each partitioning in this research were means and standard deviations for each variable and the matrix of simple correlations between all variables.

Partial and multiple correlations are also outputs of the general multiple regression model used in the CDC program at MSU (Ruble, Kiel & Rafter, 1966a). One adjantage to the use of partial correlation is that a number of variables which are assumed to have some relationsjip to a criterion, or dependent variable, can be examined simultaneously. Often when a series of Pearsonian product-moment $\underline{r's}$ are computed between a criterion and a set of variables considered to be predictors of the criterion it is possible to obtain spuriously based conclusions because



The ABS-MR: Basic Variable List by IBM Card and Column

Table 28

			Range of	I	BM	ABS-MR			
		Variable ^a	Scores	Card	Column	Page	Item		
	1.	Stereotype	20-60	1	36,38 alter to 74	2-4	1,3	alter to 39	
Attitude Content	2.	Normative	20-60	2	36,38 alter to 74	5 - 7	41,43	79	
	3.	Moral Eval.	20-60	3	36,38 alter to 74	8-11	81,83	119	
	4.	Hypothetical	20-60	4	36,38 alter to 74	12-14	121,123	159	
	5.	Feeling	20-60	5	36-38 alter to 74	15-17	1,3	39	
	6.	Action Total ^e	20-57	6	36,38 alter to 74	18-20	41,43	79	
	8.	Stereotype	20-60	1	37,39 alter to 75	2-4	2,4	40	
deity	9.	Normative	20-60	2	37,39 alter to 75	5-7	42,44	80	
	10.	Moral Eval.	20-60	3	37,39 alter to 75	8-11	82,84	120	
tu ne	11.	Hypothetical	20 - 60	4	37,39 alter to 75	12-14	122,124	160	
ti	9. 10. 11. 12.	Feeling	20-60	5	37,39 alter to 75	15-17	2,4	40	
A H	13. 14.	Action Total ^e	20-80	6	37,39 alter to 75	18-20	42,44	80	
pΛ	15.	Efficacy -Con	t. 9-36	7	36,38 alter to 52	28,29	107,109	123	
	116.	Efficacy -Int		7	37,39 alter to 53	•	108,110	124	
<u>6</u>	17.	MR Knowledge	0-16	7	54-69	30-32	125-140		
Contact 19 20 21 20 18 21 21 21 21 21 21 21 21 21 21 21 21 21	18.	HP Amount	1-5	1-7	28	26	100		
	19.	PP Avoid	1-5	1-7	29	26	101		
	20.	HP Income	1-5	1 - 7	31	26	103		
	21.	HP Alter	1-5	1-7	32	27	104		
	22.	MR Amount	1-5	1-7	33	<i>≟</i> 7	105		
	23.	MR Enjoy	1-5	1-7	34	27	106		
ra c		Age	1-5	1-7	10	21	82		
og hi	2 4. 25.	Educ. Amount	1-5	1-7	15	21	87		
ا م	26.	Religion Impo		1-7	.14	22	86		
	27.	Religion Adhe		1-7	24	24	96		
	28.	Self Change		1-7	16	22	88		
Change	29.	Child Rearing		1-7	17	23	89		
	30.	Birth Control		1-7	18	23	90		
Change ientat	31.	Automation	1-4	1-7	19	23	91		
Ch	32.	Political Lea		1-7	20	23	92		
Or	33.	Rule Adher.	_ 1-4	1-7	_25	25	97		
_	34.	Local Aid	1-4	1-7	21	24	93		
Educ	35.	Federal Aid	1-4	1-7	22	24	94		
Ħ	36.	Ed. Planning		1-7	23	24	95		
Δ.	¹ 37.	Sex	1-2	1-7	0	21	81		
a 1	138.	Ed. Contact V		1-7	11	21	83		
í. P	39.	Marital Statu		1-7	12	22	84		
or	40.	Religion-Affi		1-7	13	22	85		
eg C	41.	HP Category	1-5	1 - 7	26	25	98		
Categorical Date	42.	HP Contact, K		1 - 7	27	25	99		
Ç	43.	HP Gain	1-4	1-7_	30	26	102		

^aBased on the ABS-MR 3968 edition ^bNot used in correlational analysis ^cK=Knowledge ^dV=Value

e_{Totals} not used

predictor variables are themselves interrelated rather than directly predictive of the criterion. In a partial correlation solution to the problem these relationships among the predictor variables are considered in computing the correlation of each variable with the criterion, i.e., the effects of all but one variable are held constant.

The use of mutliple regression analysis has been recommended by Ward (1962) because it "not only reduces the dangers in piecemeal research but also facilitates the investigation of broad problems never before considered 'researchable' (p. 206)." The multiple correlation program yields the following statistics: (a) the beta weights of all predictor variables, (b) a test of significance for each beta weight, and (c) the partial correlations between each Predictor and the criterion.

Analysis of Variance and Multiple Means Statistics

The UNEQ1 routina (Ruble, Kiel, & Rafter, 1966b) was used to calculate the one-way analysis of variance statistics. This program is designed to handle unequal frequencies occurring in the various categories.

A two-way analysis of variance design for unequal $\underline{\text{N's}}$ was used to analyze group-sex interaction (Ruble, Paulson & Rafter, 1966). Since the samples were not equal in size or sex ratio within groups, all \underline{F} tests were based on coefficients represented by the adjusted means. The coefficients on which the adjusted means are based equalizes or accounts for the variance in the size of the group samples. For convenience of computer programming the \underline{F} statistic was used for testing of all mean differences even though differences between two means are usually tested by the \underline{t} statistic; results are the same for two means using either test (Edwards, 1965).



While a significant overall <u>F</u> leads to rejection of the statistical hypothesis, it is not known whether every mean is significantly different from every other mean when three or more means are involved. Several multiple means tests have been proposed for determining the differences between treatment means (Winer, 1962). In this research the <u>F</u> test for group comparisons is the usual one with the <u>F</u> test used to test for differences between "adjusted means" or "pairs-of-groups" is equal to a twotailed <u>t</u> test while also fully accounting for the other experimental factors. This procedure for testing for significance among multiple means is approximately equal to Duncan's Multiple Means Test (Edwards, 1960; Kramer, 1956) up to and including three treatment means. The procedure is somewhat more liberal than Duncan's when more than three means are included, thus increasing the likelihood of Type 1 error. The procedure also does not account for non-independence among the pairs-of-treatment means.

Simplex Approximation

Kaiser (1962) has suggested a procedure for testing a simplex approximation. Kaiser's approach may be seen as performing two functions:

(a) the "sorting" and rearranging of all possible arrangements of <u>adjacent</u> <u>pairs</u> of correlation coefficients so as to generate the best empirically possible simplex approximation from adjacent pairs, and (b) the assignment of a statistic, Q^2 , to the original and re-arranged matrices. The index Q^2 is a descriptive one, with a range of 0.00 to 1.00.

A computer program was developed at MSU which (a) re-ordered the obtained level member correlations of each ABS-MR matrix by Kaiser's procedure to generate the "best" empirically possible simplex approximation, and (b) calculated the Q^2 for both the obtained and the empirically best ordering of each matrix.



At the time the present research was completed an appropriate likelihood ratio for measuring goodness of fit was not available. Mukherjee (1966) has suggested a method which appears appropriate for matrices of equally spaced correlations but neither the facet theory as originally postulated by Guttman (1959) nor the data obtained to date indicate that the matrices have equally spaced entries.

Table 8 shows the matrices which evolved from the standardization study discussed in Chapter 2. The top section of Table 8 shows the actually obtained matrices for the MSU graduate students in special education-rehabilitation (SER), the MSU education sophomores (ED 200), and the Belize teachers, along with a value of Q^2 for each matrix. The lower section of Table 8 shows the Q^2 's for the same data as reordered by Kaiser's (1962) procedure.

Examination of Table 8 indicates that the obtained matrices for the SER and ED 200 groups and the empirically "best" ordered matrices for these two groups were identical, with correspondingly identical Q^2 values. For the Belize group, Levels 5 and 6 are reversed in the obtained and best orderings but the increase in the Q^2 value was minimal, i.e., from .858 to .859 as a result of this reordering.

It will be noted that Kaiser's (1962) method of rearranging the matrices leaves something to be desired in that it does not produce a perfect simplex criterion by which to compare obtained matrices since only adjacent pairs of correlations are reordered. Reordering of adjacent pairs only means that all possible permutations of the data are not obtained. It will be recalled that a perfect simplex exhibits the characteristics of (a) descending absolute correlation coefficients moving from top



to bottom in the columns, and (b) ascending coefficients moving from left to right in the rows.

In addition, at the time of research completion there was no test of significance available for Q^2 . Hamersma (1969) accepted six order reversals as the maximum a 6 x 6 matrix could contain and still be accepted as approximating a simplex. He found that by this criterion, a Q^2 value of .60 was minimal and that preferably a value of .70 should be used to consider a matrix as approximating a simplex.

Significance Level

The .05 level was accepted as constituting significance beyond chance level for both correlational and analysis of wariance statistics in the present research. Setting the acceptable level of significance at this level results in some danger, of course, in research of this type, which employs large samples and numerous variables, of mistaking spurious yet statistically significant relationships and differences for meaningful ones. However, at the present stage of theory development, it was felt that this danger was more than offset by the cues and guides which might be provided future researchers in this area through statistically significant differences and relationships which might otherwise be overlooked at a more exacting level of signifance.

HYPOTHESES

The variables employed in this study were subjected to statistical treatment to enable comparison of groups or examination of relationships between the criterion or dependent variable (ABS-MR) across each level with 22 independent or predictor variables (15-36 of Table 6). Not all the data are analyzed herein, but will be contained in the forthcoming book.



The following hypotheses were tested:

Relating Attitudes and Values

<u>H-1:</u> Persons who score <u>high</u> in efficacy will score <u>high</u> in positive attitudes toward the mentally retarded on each of the six levels of the ABS-MR

<u>Instrumentation</u>--Attitudes were measured by the ABS-MR contained in Appendix A.3. The scores on each scale ranged from 20 to 60 as shown in Table 6. Efficacy, or the subjects reported sense of control over his environment, was measured by questions 107-124.

<u>Analysis</u>--Pearson Product Moment Correlations between Efficacy and the attitude scores.

Relating Attitudes and Knowledge

H-2: Persons who score high in knowledge about mental retardation will score high in positive attitudes toward the mentally retarded on each of the six levels of the ABS-MR.
Instrumentation--Attitudes were measured as in H-1 and knowledge by questions 125-140 in the questionnaire.
Analysis--Pearson Product Moment Correlations between knowledge scores and attitude scores.

Relating Attitudes and Contact

<u>H-3:</u> The more <u>frequent</u> the contact with the mentally retarded persons the <u>higher</u> will be the intensity scores on each of the

For purposes of clarity the hypotheses are stated in the research form although the analyses employ the null form.



levels of the ABS-MR.

Instrumentation—Intensity scores of the ABS-MR, measured by the even numered questions on each of the levels, with scores ranging from 20 to 60. Amount of contact with the mentally retarded measured by question 105 in the questionnaire.

Analysis—Pearson Product Moment Correlations between amount of contact and the attitude intensity scores.

H-4: The more <u>frequent</u> the contact with other disability groups the <u>higher</u> will be the scores on the intensity statements on each of the levels of the ABS-MR.

<u>Instrumentation</u>-- Intensity scores measured as in H-3 and contact with other disability groups by question 100 in the questionnaire.

<u>Analysis</u>--Pearson Product Moment Correlations between attitude intensity scores and frequency of contact with other disability groups.

H-5: Contact with mentally retarded persons will be associated with favorable attitudes toward the mentally retarded on each of the levels of the ABS-MR if high <u>frequency</u> is concurrent with (a) <u>alternative</u> rewarding opportunities, (b) ease of <u>avoidance</u> of the contact, (c) <u>enjoyment</u> of the contact.

<u>Instrumentation</u>--Attitudes measured as in H-1, frequency by question 105, alternatives by question 101, avoidance by 104, and enjoyment by 106.

<u>Analysis</u>--Multiple and partial correlations between attitude scores and combined contact measures.



Relating Attitudes and Religiosity

H-6: Persons who score <u>high</u> on stated importance of religion will score <u>low</u> on positive attitudes toward the mentally retarded.
<u>Instrumentation</u>--Attitudes measured as in H-1 and importance of religion by question 86.

<u>Analysis</u>--Pearson Product Moment Correlations between attitude scores and stated importance of religion.

H-7: Persons who score high on stated adherence to religion will score low on positive attitudes toward the mentally retarded Instrumentation--Attitudes measured as in H-1 and adherence to religion by question 96.

<u>Analysis</u>--Pearson Product Moment Correlations between attitude scores and stated adherence to religion.

Relating Attitudes and Demographic Variables

 $\underline{\text{H-8}}$: Amount of education will be positively related to favorable attitudes toward the mentally retarded.

<u>Instrumentation</u>--Amount of education measured by question 87, with scores ranging from 1-5, indicating coded categories of years of education. Attitudes measured as in H-1.

<u>Analysis</u>--Pearson Product Moment Correlations between attitude scores and amount of education.

 $\underline{\text{H-9}}$: Age will be positively related to favorable attitudes toward the mentally retarded.

<u>Instrumentation</u>--Age was measured by question 82, with scores from 1-5, indicating coded categories of age. Attitudes were measured as in H-1.

<u>Analysis</u>--Pearson Product Moment Correlations between attitude scores and age.



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 $\underline{\text{H-}10}$: Women will score higher on positive attitudes toward the mentally retarded than men.

<u>Instrumentation</u>--Attitudes measured as in H-1 and sex by question 81 in the questionnaire.

<u>Analysis</u>--An \underline{F} test for differences between the scores of men and women equivalent to a <u>t</u>-test.

Relating Attitudes and Change Orientation

H-11: Persons who score high on change orientation will score high on positive attitudes toward the mentally retarded.

Instrumentation: Attitudes measured as in H-1 above and change orientation by a combination of question, 88-92 and 97.

Analysis: Multiple and partial correlations between the change orientation measures and the attitude scores.

H-12: Agreement with federal versus local government aid-to-education will be positively related to favorable attitudes toward the mentally retarded.

<u>Instrumentation</u>--Attitudes measured as in H-1 and aid-to-education measured by questions 93 and 94.

<u>Analysis</u>--Pearson Product Moment Correlations between the attitude scores and reactions to federal and local aid-to-education.

H-13: Agreement with local versus centralized government planning of education will be <u>positively</u> related to favorable attitudes toward the mentally retarded.

<u>Instrumentation</u>-Attitudes measured as in H-1 and reaction to educational planning by question 95.

<u>Analysis</u>--Pearson Product Moment Correlations between the attitude scores and reactions to planning for education.



Relating Attitudes and Group Membership

H-14: The groups will assume the following order with respect to favorable attitudes toward the mentally retarded: 1-SER > 4-PMR>2-RST>5-MAN>8-PNR.

<u>Instrumentation</u>--Attitudes measured as in H-l and the rank order of the groups by inspection of their obtained means.

<u>Analysis</u>--Analysis of variance and multiple means test procedures.

Relating Attitudes and Multidimensionality

 $\underline{\text{H-}15}$: The ABS-MR six level subscales will form a simplex for all groups and nations.

<u>Instrumentation</u>--Correlation matrix between the ABS-MR six levels.

Analysis -- The Kaiser Q^2 test.



CHAPTER 5

RESULTS OF THE STUDY

The basic data for the analysis presented in this chapter are contained in the tables in Appendix A.5. The tables in this chapter are derived from the data represented in these tables. The tables containing the data for the hypotheses of this report are grouped together at the end of this chapter to facilitate reading the narrative rather than inserting the tables throughout the chapter since they are rather voluminous. The forthcoming book will deal with the data more exhaustively than will this report.

This chapter emphasizes the results of specific hypothesis testing. In Chapter 6 the data will be discussed at the "variable, national, and cross-cultural" level. Examination of the tables in Appendix 5, as well as the tables at the end of this report, permits one to: (a) examine the relationships between the variables of the study, i.e., the hypotheses; (b) assess the differentiating effectiveness of variables within, between, and across nations, and (c) ascertain which interest groups (i.e., SER, RST, PMR, MAN, PNR) are most or least alike on each of the 36 variables of the study as listed in Table 6 in Chapter 2. It should be noted that we do not attempt to compare nations but rather we compare interest groups within, between, and across nations.

The primary emphasis of this report is in comparing the interest groups combined across-nations and examination of specific hypotheses which relate two or more constructs to one another, such as amount of contact and attitude favorableness. The forthcoming book will examine in detail the data within, between, and across nations.



¹See footnote on page ii.

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Examination of the data in Appendix 5 and the items in the ABS-MR instrument allows one to determine the characteristics of the subjects such as age, education, income, etc. These will not be examined in detail in this report since the emphasis is on hypothesis testing.

Methods of sample selection indicate that the SER group is probably most representative, followed respectively by the PMR, RST, PNR, and MAN samples.

Some of the data have been previously analyze' by several investigators (Gottlieb, 1971; Harrelson, 1969; Morin, 1969; Vurdelja, 1970) who were part of the research team. Various research reports have also used portions of the data (Jordan, 1970; Jordan, 1971a, 1971b; Vurdelja and Jordan, 1971). The analyses contained in this report, however, present for the first time the comparative results of the entire seven-nation study.

Examination of the entire list of variables in Table 6 indicates the extensive amount of data that have been gathered. It is also projected that a series of research reports will be written and published locally in each of the nations of the study in collaboration with nationals from each country. The local national reports will deal with issues of particular relevance to that nation as determined by the research collaborators in the nation (see Appendix A.4 for research counterpart personnel).

DATA ANALYSIS

For purposes of reader clarity, none of the hypotheses in this report: are stated in the null form. However, in the statistical analysis it is the null form which was tested. As stated previously, the .05 level of statistical significance was established as necessary for an hypothesis to be accepted.



ABS-MR Reliability and Validity

It was pointed out in Chapter 3 that the ABS-MR content and intensity scores could be combined into one score for each subject according to the procedures described in Table 7. This report, however, uses only the content scores but the projected book will use both content and intensity procedures. Table 10 contains the reliability figures for the test development data as determined by the Hoyt analysis of variance method for determining reliability. Reliabilities for the test development samples ranged from .60 to .85. Reliability estimates obtained by the same procedures on the seven-nation data indicate the reliabilities are equal to or, in many instances, better than those obtained on the test development samples. For example, the results of Vurdelja (1970), on the attitudes of mothers in four nations yielded reliability figures better than those often obtained on individual tests: of the 60 reliability figures obtained by Vurdelja, 31 were .90 plus, eight were between .80-.89, 10 between .70-.79, nine between .60-.69, and only two between .50-.59.

Validity of the ABS-MR was assessed by the "known group" method and by the results of the simplex test described in Hypothesis 15. Examination of the data in Appendix A.5 and the data in the tables of this chapter indicate that the groups do score approximately as expected with the SER and PMR usually scoring more positively toward the mentally retarded, especially at the action oriented levels represented by Levels 3-6 of the ABS-MR.

As pointed out previously, the projected book will contain a detailed analysis of the reliability and validity data by individual interest groups and nations.

The remainder of this chapter will be devoted to an analysis of the data as it relates to the research hypotheses. It will be noted throughout



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this chapter that the figures represented in the tables do not always agree exactly with the sample sizes presented in Table 27 of Chapter 4. This is due to a combination of incompletely filled out questionnaires and computer procedures which drop subjects who do not indicate their sex. Because of the relatively large sample sizes involved, it was not felt that missing data constituted a serious problem and all statistics are based on the N's reported in the tables.

It will be noted in connection with several correlational hypotheses that larger correlations appear for the total sample than for the individual interest group samples, which suggests homogeneity within and differences between groups with regard to the predictor variables in these instances. The means and standard deviations of the predictor variables used in this study may be found in the tables in Appendix A.5 which should be consulted in conjunction with Table 6. The projected book will deal with the total data contained in the Appendices more completely than does this report.

H-1: Persons who score high in efficacy will score high in positive attitudes toward the mentally retarded on each of the six levels of the ABS-MR.

It will be recalled from Chapter 1 and 2 that the Efficacy scale was designed to measure the subject's view of man's effectiveness in the face of his natural environment. Hypothesis 1 was tested by correlating scores on the Efficacy scale with scores on the six levels of the ABS-MR. Tables 30-62 contain the results for the individual national samples as well as the totals of the interest group samples which are contained in Tables 55-62.

Examination of Tables 30-54 versus the correlations in Tables 55-62 indicates, as pointed out previously, homogeniety within the individual samples and differences between interest groups when combined across nations.



Tables 55-62 indicate correlations that are both larger and statistically more significant than those generally found in Tables 30-54. However, even the correlations contained in the individual national samples of Tables 30-54 indicate many significant correlations between Efficacy and attitudes. Efficacy, or variable number 15 of Table 6, is, in other words, often predictive of positive attitudes toward the mentally retarded. This is less so, however, for the MAN group than any other group. It could be hypothesized that the MAN group as a rule has less contact with the mentally retarded than any of the other groups; and that those who score high on Efficacy who are in leadership positions in management or executive positions may not relate as favorably to the mentally retarded as others since they may see the retarded as interfering with or limiting production in some manner.

However, as a general statement, the data do indicate a relationship between Efficacy and positive attitudes, thus Hypothesis 1 is supported.

H-2: Persons who score high in knowledge about mental retardation will score high in positive attitudes toward the mentally retarded on each of the six levels of the ABS-MR.

The data throughout Tables 30-62 do not generally support the hypothesis. In fact, the relationship often is the opposite of that postulated, i.e., high knowledge scores indicate negative attitudes toward the mentally retarded, especially at Levels 3-6, i.e., the more personal levels. The data indicate that knowledge is more likely to be predictive of positive attitudes at Levels 1 and 2, the cognitive and other-oriented levels.

In summary, the data generally indicate that Hypothesis 2 was not supported.



- II-3: The more <u>frequent</u> the contact with mentally retarded persons the higher will be the intensity scores on each of the levels of the ABS-MR.
- H-4: The more <u>frequent</u> the contact with other disability groups the <u>higher</u> will be the scores on the intensity statements on each of the levels of the ABS-MR.

Table 70 contains the data on the relationship between the ABS-MR intensity scores and contact with mentally retarded persons as well as contact with handicapped persons in general.

It will be recalled that intensity was measured by separate questions for each of the attitude items. The intensity variable (numbers 8-12 of Table 6) is highly predictive of positive attitudes toward the mentally retarded at Levels 4-6; Hypothetical Action, Actual Feeling, and Actual Action levels. The intensity variable was not significantly related to attitudes toward the mentally retarded at either the Stereotypic or Normative levels.

The intensity variable was also predictive of positive attitudes toward handicapped persons at the Feeling (Level 5), Normative (Level 1), and Moral Evaluation (Level 3) levels. In other words, amount of contact per se is more predictive of intensity of feelings toward the mentally retarded than it is toward intensity of feelings toward handicapped persons in general. The data also indicate that contact is not uniformly related to positiveness of attitudes but is differentially related at each of the six levels for both mentally retarded and handicapped persons in general. This indicates again the utility of the facet theory evolved six-level ABS-MR instrument. Hypothesis 3 and 4 are regarded as partially supported.



H-5: Contact with mentally retarded persons will be associated with favorable attitudes toward the mentally retarded on each of the levels of the ABS-MR if high <u>frequency</u> is concurrent with (a) <u>alternative</u> rewarding opportunities, (b) <u>avoidance</u> of the contact, and (c) <u>enjoyment</u> of the contact.

Hypothesis 5 was tested by correlating the scores on the ABS-MR with item 5 (amount of contact), item 104 (alternatives to contact), item 101 (possibility of avoidance of contact), and item 106 (enjoyment of contact with mentally retarded).

Some difficulty was encountered in testing and/or interpreting the results of this hypothesis. As pointed out by Harrelson (1969, p. 125) a great deal of difficulty was encountered in testing this hypothesis because of errors in the construction of the personal Questionnaire. As indicated by the hypothesis, it had originally been hoped that a multiple correlation analysis could be conducted with (a) amount of contact, (b) alternative rewarding opportunities, (c) ease of avoidance, and (d) enjoyment of the contact as partial correlates. Because of instrumentation, however, (b) and (c) referred to "other" disability groups in questionnaire item 98, while (a) and (d) referred to amount and enjoyment of contact with mentally-retardedonly, measured by items 105 and 106. Because of the computer programming difficulties arising from this error, large numbers of subjects would have to be dropped to account for the error. Harrelson decided to test only the "amount" and "enjoyment" aspect of the hypothesis in two straight-forward correlational analyses. However, the present report will carry through with the hypotheses as intended and also present the two straight-forward analyses.

Tables 63-69 contain the partial and multiple correlations for Hypothesis 5 and 6 and a combination of 5 with knowledge and efficacy. Tables 63-69



indicate the multiple correlations are highly significant for most of the interest groups (SER,RST,PMR,MAN). The tables also indicate that a combination of variables of efficacy, knowledge, contact specifically with mentally retarded, and amount of age and education are more predictive of favorable attitudes toward the retarded than are either the combined contact variables or the combined change orientation variables. Examination of Table 63 indicates the nature of the testing of the hypothesis: variables 18-23 constitute the combined contact variables, variables 15, 17, and 22-25 constitute the combined efficacy-knowledge-contact-age-education variables, and variables 28-33 constitute the combined change orientation variables.

Analysis of variables 18-23 throughout Tables 63-69 indicates that enjoyment of contact is generally more predictive of positive attitudes than any of the other individual contact variables, especially at Levels 4-6, the more affective and action-oriented levels.

The data generally indicate that Hypothesis 5 is supported.

<u>H-6:</u> Persons who score <u>high</u> on stated importance of religion will score <u>low</u> on positive attitudes toward the mentally retarded.

Hypothesis 6 was tested by correlating the six ABS-MR scale levels with responses to item 86 in the questionnaire section of the instrument which asks the subject to rate the importance to him of his religion in his daily life. Tables 30-62 show the correlations for the various sample groups between the ABS-MR levels and the importance of religion variable.

The results of testing Hypothesis 6 reveals again the homogeneity within and differences between samples. Tables 30-54 contain the results by individual samples and Tables 55-62 contain the data from the combined interest groups (SER, RST, PMR, MAN, PNR, females, males, and total sample). Tables



30-54 contain few significant findings, and these in a scattered random manner, whereas Tables 55-62 indicate many significant findings. The significant findings of these latter tables are not merely a result of the larger sample sizes resulting from combining the interest groups.

It will be noticed that the correlations are both larger in "absolute size" as well as being more significant than those in Tables 30-54. This is again an indication of greater variance and indicates that religiosity as a variable is perhaps homogeneous enough within individual national samples as to be non-predictive of attitudes toward the mentally retarded whereas stated importance of religion is significantly related as a construct to positive attitudes when the two variables are distributed on a wider continuum represented by the scores obtained by combining the groups across nations.

<u>H-7:</u> Persons who score <u>high</u> on stated adherence to relition will score <u>low</u> on positive attitudes toward the mentally retarded.

Hypothesis 7 was tesced by correlating the ABS-MR with the extent to which the subjects stated they observed the rules and regulations of their religion as measured by 96 item in the questionnaire. Tables 30-62 present these correlations for the samples. The data are essentially in accord with those of Hypothesis 6 on stated importance of religion.

However, the data in the tables do indicate that <u>stated adherence</u> to religion is more related to attitudes toward the retarded than is <u>stated</u>
<u>importance</u>. The same observations pertain with reference to the data from the individual samples as compared to the data combined from the interest groups across nations. The correlations from the latter groups are more significant, i.e., when relating stated adherence to religion and attitudes cross-nationally than when related intra-nationally.



Examination of the data in Tables 30-62 reveals some interesting observations. The relationship between attitudes and importance and adherence to religion are stronger for the manager group than for any of the other groups. This relates to the often observed relationship of the "importance" of religion to businessmen. The dynamics or interpretation of this is, of course, another issue.

It is also interesting to observe the relationships between the religion variables and attitudes in a socialist country, such as Yugoslavia, in accord with the "non-importance" attached to religion in such countries. The relationship between attitudes and religiosity for the parents of the mentally retarded are higher in Yugoslavia than in any of the other sample groups. It would be interesting to further test this observation to see if it is really "true" or was a function of some other influence, such as sample selection.

H-8: Amount of education will be positively related to favorable attitudes toward the mentally retarded.

Hypothesis 8 was tested by correlating the ABS-MR with responses to item 87 in the questionnaire which asks the subject to report his highest level of education. The correlations for the sample groups are give in Table 30-62.

Examination of the data indicate again the higher relationship between the two variables of attitudes and education for the total interest group samples than for the individual national samples. The analysis of the data for the two variables throughout all the tables, however, indicate a rather sporadic and random relationship except in a few instances such as Brazil and the



1)

manager group or which the relationships were higher. The most important observation is the differential manner in which amount of education relates to the six levels of the ABS-MR. In other words, there is no one relationship between amount of education and attitudes toward the mentally retarded but it varies depending on which of the six levels is being specified.

Hypothesis 8 is regarded as supported in only a limited manner and then only for certain levels and/or for certain groups.

 $\underline{\text{H-9:}}$ Age will be positively related to favorable attitudes toward the mentally retarded.

Hypothesis 9 was tested by correlating the ABS-MR with the respondants age as determined by item 82 in the questionnaire section of the instrument. These correlations appear in Tables 30-62 for the various sample groups.

Analysis of the data for the combined interest groups (Table 55-62) indicate some interesting observations:

- 1. SER group -- no significant relationships,
- 2. RST group--shows a negative relationship between positive attitudes toward the retarded and the perceived Norms of society; they achieve a positive relationship between their own Feelings toward retardation and age, and they achieve a negative relationship between their own Actual Action (involvement) with the mentally retarded and their attitudes toward retardation,
- 3. PMR group--as parents of the mentally retarded get older they see the Stereotypes of society as being inadequate as well as the Norms of society being inadequate and not "right." They also indicate a highly statistically significant relationship between the Actual Action level with the retarded as they grow older. This can also



be regarded as a validity indication for the ABS-MR as it would be somewhat incongruous for parents of the retarded to say "we have less involvement" with the retarded as they themselves grew older; thus, spending more time with their own retarded children.

4. MAN group—the manager or executive, as he grows older, sees the Stereotypes of society and Norms as being inadequate. He also grows more positive in his own Feelings and Actual Action toward the retarded. This is an interesting observation since the managers throughout the study often score lower in their own attitudes when compared to other groups. This is perhaps an indication that as managers or executives grow older they see that the mentally retarded could do many more things than they had thought when they were younger. In terms of dynamics it might also indicate that as managers grow older, thus having less time or need to compete agressively in the industrial labor market, they feel more positive toward the mentally retarded whom they previously perceived as being less able to compete agressively.

H-10: Women will score <u>higher</u> on positive attitudes toward the mentally retarded than men.

The hypothesis specifies the relationship between sex and attitudes generically and not within groups or nations. The data of Table 71, however, permit an examination of the relationship between the constructs of attitude and sex within groups. The data of Table 71 indicate there is a significant difference between males and females on attitudes at Levels 3-5; the Moral Evaluation, Hypothetical Behavior, and Actual Feeling levels, but no difference between the sexes on the Stereotypic, Normative, or Actual Action levels. However, in all three instances in which there was a significant



difference between males and females it was in the <u>opposite direction</u> to that hypothesized; males were more positive in their attitudes toward the mentally retarded than were females.

This is a finding in somewhat complete disagreement with most studies on attitudes toward children or related objects regarded in a succorant position where women are postulated to be more so. It could be hypothesized that the relationship of the mother to the retarded child is much more aniexty producing and also threatening since she is more often the one regarded as having "produced" a mentally defective child than is the male. Hypothesis 10 was not supported.

H-11: Persons who score high on change orientation will score high on positive attitudes toward the mentally retarded.

Hypothesis 11 was tested by a multiple correlation program which produced a multiple correlation between responses to the six change orientation questions and each of the ABS-MR levels for each of the samples. In this report only the scores on relationships for the total interest groups (SER, RST, PMR, MAN, FNR) will be analyzed but the forthcoming book will contain an analysis for the samples for each nation.

In addition the multiple correlation program produced a partial correlation between each change orientation variable and the various ABS-MR levels with the remaining change orientation variables "partialled out" or held constant. The change orientation questions dealt with self change (item 88), child rearing (item 89), birth control (item 90), automation (item 91), political leadership change (item 92), and rule adherence (item 97). The results of the multiple regression analyses are presented in Tables 63-69.

Close examination of the data in these tables indicate that in all instances the multiple correlation is significant and in most cases beyond



the .005 level. Only a few instances were significant at the .02 level.

All the multiple correlations were statistically significant. The actual size of the correlations are, however, quite low and particularly the sizes of the partial correlations for the individual variables.

Variable number 30, attitudes toward birth control, was generally related more strongly to attitudes toward retardation than any of the other individual change orientation variables. The unexpected finding, however, was the <u>negative relationship</u> between attitudes toward birth control and positive attitudes toward the mentally retarded. The negative relationship indicates that positive attitudes toward mental retardation and negative attitudes toward birth control "go together." Both the literature and common sense would have suggested a positive relationship between the variables of birth control and positive attitudes toward the mentally retarded but the daca do not indicate such.

The data indicate that Hypothesis 11 was not supported.

H-12: Agreement with federal versus local government-aid-to-education will be positively related to favorable attitudes toward the mentally retarded.

Hypothesis 12 was tested by correlating the ABS-MR levels with items 93 and 94 in the personal questionnaire which deal respectively with opinions regarding increased federal and local government financial support of education. These correlations are reported for the samples of the study in Tables 30-62.

Tables 30-62 indicate that the education variables bear the strongest relationship to ABS-MR attitudes in the manager group where nine of the 12 scale level correlations reach significance. A number of other significant correlations are scattered throughout the individual samples of Tables 30-54 but no readily apparent pattern appears in the correlations.



In summary, Hypothesis 12 is generally supported with the MAN group and is partially supported for the total sample as well as the total male and female sample.

H-13: Agreement with centralized government planning for education will be positively related to favorable attitudes toward the mentally retarded.

Hypothesis 13 was tested by correlating the ABS-MR with responses to item 95 of the personal questionnaire. This item measures the extent to which education should be planned by governmental agencies, on a continuum ranging from planning directed primarily by the church to planning directed primarily by the federal government. The resulting correlations are contained in Tables 30-62.

Analysis of Tables 30-54, which contain the individual national samples, indicate that centralized governmental educational planning is not related to positive attitudes toward the mentally retarded in any consistent manner except for the Brazil manager group. It will be noticed that the Brazil manager group has been generally different from many of the other groups of the study and that an unusually high number of significant correlations are obtained for all variables. It would be interesting to explore these relationships to see if they are "true" or if this sample of Brazilian managers are not representative of managers in Brazil. The other interesting observation from examination of the tables is the large number of negative relationships between centralized educational planning and positive attitudes toward the mentally retarded. The implication is that positive attitudes toward the mentally retarded go with local educational planning versus federal planning.



As pointed out by Morin (1969, pp. 133-134) the apparent "preference" for local planning contains important implications for retardation. The rationale for this hypothesis was that centralized planning is more progressive, imposes more rigorous standards, and has a greater economic and experience base from which educational innovations can be developed and implemented. Agreement with centralized educational planning then would reflect an awareness of the positive influences such planning could have on the lives of the retarded.

As pointed out by Morin: "The desire for local planning could very well result in less attention to special education programs because the thrust behind such programs has come from federal agencies. Such a finding, if not a chance occurance is ominous as it relates to meeting needs of mentally retarded children (Morin, 1969, p. 134).

H-14: The groups will assume the following order with respect to favorable attitudes toward the mentally retarded: SER >PMR >RST > MAN >PNR.

Hypothesis 14 was tested through an analysis of variance procedure for each of the samples on each of the ABS-MR scale levels using means adjusted for sample size and sex differences. The multiple means test procedures described in the methodology chapter permitted the testing of each mean against every other mean, producing an <u>F</u> test equivalent to a two-tailed <u>t</u> test. Partial analysis of these data appear in Table 71 where the sample groups are listed and the analysis for group differences and sex differences are shown.

It will be noted that the groups assumed the hypothesized order only on ABS-MR Level 5--the Actual Feeling level. Harrelson's study (1969, p. 151) obtained the hypothesized order on the Hypothetical Behavior level rather than the Actual Feeling level as in this study. As with Harrelson,



the rank order results obtained here, however, did not produce significant differences between all of the means at Level 5. A complete analysis of the multiple means results of these data will be contained in the forth-coming book.

As previously pointed out by Harrelson (1%9, p. 151), a definite change of direction seems to occur in many cases between Level 2 and Level 3 where the "referent"--the person to whom the opinion or behavior is attributed--shifts from "other" to self." This phenomena is once again demonstrated in several of the groups of this study rather clearly when the scores shift as indicated.

It is quite apparent at this point that the <u>total</u> scores on the ABS-MR would be relatively meaningless since different dimensions of attitudes seem to be measured in a non-additive fashion. This again indicates the multidimensional nature of attitudes.

Examination of the size of the means and their order in Table 71 indicate an interesting rationale about their relationships. Level 1 indicates the stereotypes of society, Level 2 indicates the usual thing that society does; Level 3--the right thing to do with regard to the retarded; Level 4--what one hypothesizes he would do toward the retarded; Level 5--how one acutally feels or has felt toward the retarded, and Level 6--one's actual action or behavior with the retarded. An examination of the rank order of the means indicates that an order seems to exist such that Level 2 is greater than 1, Level 3 greater than 2, and that a diminishing pattern seems to then set in such that Level 4 is less than Level 3, Level 5 is less than Level 4, and Level 6 is less than Level 5.

This indicates a circumflex order in the data and should be explored by the Guttman non-metric analyses procedures. In terms of the absolute size of the means, it will also be observed that the Actual Action level



scores are somewhat between Stereotypes and Norms. This may also be the reason that past attitude scales have worked as well as they have, in spite of their inadequate conceptualization, since it suggests that Actual Action is somewhat closer to the Normative or Stereotypic level than it is to the Hypothetical Behavior or Actual Feeling level.

When the rank order of the groups is examined in Table 71, other interesting observations appear. It will be noticed that managers have the lowest scores, or most negative attitudes, toward the retarded at the Stereotypic level and the Action levels. It will also be observed that the PMR group has higher scores on Hypothetical Behavior and Actual Feeling levels but place in the middle on Actual Action. The two groups having more positive attitudes at the Actual Action levels are the two most highly educated groups and the two groups with most experience with children in an educational setting. Perhaps this accounts for their more favorable attitudes at the Action level than those of parents of retarded.

It will also be observed that the SER group, those who work with the retarded, see the Stereotypes of society as being worse than does any other group. The SER group also sees the Norms of society as being worse than any other group but paradoxically also scores the lowest at the Moral Evaluation level or the level which indicates what should be done for the retarded. This raises again the issue pointed out in the scale development discussion of the ABS-MR about the "realistic nature" of the item scoring. In other words, are the SER people being more negative in what they say should be done for the mentally retarded or are they being more "realistic" in their evaluations of the potential of the retarded. Again, it will be noted that Level 5 is the only level where the groups assume the postulated rank order.



The discussion of Table 71 and Hypothesis 14 rather dramatically illustrates the multidimensional character of the ABS-MR. It also illustrates where e predictor variables (variables number 15-36, Table 6) relate differentially to each of the six ABS-MR levels.

H-15: The ABS-MR scale levels or attitude subuniverses will form a Guttman simplex for each of the sample groups.

Hypothesis 15 was tested by plotting the content scale level intercorrelation matrices for each sample and subjecting these matrices to Kaiser's (1962) simplex approximation test as described in Chapter 4. Q^2 generates a goodness of fit value for the empirically obtained matrices and then rearranges these matrices into the "best" simplex order for which a Q^2 value is also given. Table 29 contains the Q^2 values for the obtained and reordered matrices for each of the sample groups. The data section of the Appendix contains illustrations of the Q^2 matrices and the forthcoming book will contain all of the matrices and an extensive discussion of them.

Harrelson (1969) extensively discusses the strengths and weaknesses of the simplex approximation test, and summarizes his discussion as follows: Neither Guttman's (1959) contiguity hypothesis on which the simplex model is based nor Kaiser's (1962) simplex approximation test takes into account the occurance of non-positive correlations. Since a number of negative correlations appeared in the matrices throughout our data, the possible meanings of these negative correlations were ignored in computing Q^2 values and reordering of matrices. Although a number of limitations of the simplex approximation test as applied to these data have been listed, it is currently the best and most objective measure available, and by its standard a simplex may be considered to have been obtained in 19 of the 25 research groups listed in Table 29; excluding the test development sample of Belize



and the combined male and female samples. It will be noted that the greatest difficulty was with the samples in Brazil where none of the three samples met the simplex requirement.

The data of Table 29 indicate that Hypothesis 15 was supported.



Table 29

 \mathbf{Q}^2 Figures from the Simplex Analysis of the Nations and Research Groups for the ABS-MR Study

									172 4 400 04	400
Group ^b	Q^2	BEL	$\frac{2}{\text{BRA}}$	3 COL	GER	5 TSR	6 YUG	7 KEN	MIC T	9 TEX
1-SER	D _C	1 1	.91	. 63	. 84 86	.86		.86		.80
2-RST	0 8	.95 .95	11	888	.74		: : : : : :	93	! !	.85
4 - PMR	0 8		; ;	.92	. 69	.41	.83	; ! ; ;	.94 .94	.90
5-MAN	0 g	; ;	.30	;;	.73		1 ;	.54		
8-PNR	0 %	; ;	.40	;;	.84	.78	. 89	: :	.73	8 8 8 8 9
	ab EL-Bel BRA-Bra COL-Col GER-Ger ISR-Isr YUG-Yug KEN-Ken MIC-Mic	BEL=Belize BRA=Brazil COL=Colombia GER=Germany ISR=Israel YUG=Yugoslavia KEN=Kentucky MIC=Michigan Tex=Texas	q			b1-SER= 2-RST= 4-PMR= 8-PNR= 5-MAN= C0=obta B=''bes	bl-SER=Special education/r 2-RST=Regular school teach 4-PMR=Parents of mentally 8-PNR=Parents of non-reta 5-MAN=Managers/Executives co-obtained Q B="best" Q ² by Kaiser (19	education/rehab school teachers of mentally ret of non-retarded Executives	1-SER=Special education/rehab personnel 2-RST=Regular school teachers 4-PMR=Parents of mentally retarded 8-PMR=Parents of non-retarded 5-MAN=Managers/Executives 0=obtained Q B="best" Q ² by Kaiser (1962) method.	rsonnel ed



Sample Sizes, Correlations, and Significance a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables for the Brazil SER^C Sample

TABLE 30

	£			ABS - MR	ABS-MR Levels		
Var	٠.	1-Stereo.	2-Norm.	3-Moral	4-Hypo.	5-Fee1	6-Action
No.							
15	Efficacy-Con.	91/31/30	20/31/26	27/31/11	51/31(003)	64/31/005)	63/31(005)
16	Efficacy-Int.	01/31/95	09/31/33	18/31/33	4i/31 60 0	40/31/02	45/31/008
17	MR Knowledge	16/31/37	-10/31/56	47/31(006)	32/31/07	08/31/65	08/31/65
18	HP ^C Amount	1	1		1	1	
19	HP Avoid	29/25/14	-35/25/07	40/25(0 4)	26/25/18	04/25/85	15/25/46
20	HP Income	10/22/63	15/22/47	-30/22/15	-17/22/41	08/22/69	-02/22/93
21	HP Alter.	-11/27/55	-34/27/07	30/27/11	21/27/27	-02/21/70	13/27/49
22	MR Amount	-38/27 🐠	29/27/88	05/27/78	05/27/78	09/21/64	02/27/22
23	MR Enjoyment	-30/30/09	-18/30/31	19/30/31	21/30/25	-05/30/16	-01/30/98
24	Age	01/31/99	-17/31/35	-13/31/46	11/31/57	14/31/44	36/31,(04)
25	Educ. Amount	17/30/34	10/30/59	10/30/59	-12/30/50	-17/30/36	-21/30/25
56	Rel. Import.	16/3/36	-13/31/46	56/31/001	55/31(001)	36/31	30/31(03)
27	Rel. Adher.	18/3/33	26/31/14	17/31/35	29/31/10	42/31 (01)	28/31/10
28	Self Change	31/30/08	11/30/54	-18/30/31	-25/30/16	-03/30/88	-11/30/53
53	Child Rear.	-09/31/62	-16/31/38	-01/31/99	-17/31/35	-23/31/18	-16/31/37
30	Birth Cont.	13/30/46	-12/30/50	-08/30/68	-26/30/15	-24/30/19	-28/30/12
31	Automation	23/31/19	-25/31/16	47/31,006	21/31/15	-02/31/89	16/31/36
32	Polit. Lead.	33/31/06	46/31/001	-03/31/85	12/31/50	48/31/005	16/31/36
33	Rule Adher.	-08/31/65	-06/31/71	06/31/74	-19/31/29	-33/31/05	-21/31/23
34	Local Aid	34/30(05)	-07/30/69	80/30/005	76/30/005	47/30/002	(500/06/69
35	Federal Aid	$32/31/\overline{06}$	-07/30/71	86/31(005)	78/31(005)	53/31/00	66/31/2003
36	Ed. Planning	10/30/57	-14/30/44	41/30(02)	29/30/11	05/30/78	22/30/23

^aThree entrees are contained under each level; the first is the correlation, the second the sample size, and the third is the significance level.

Note: CorrelationS significant at .05 or better are circled in Tables 30-71.



 $^{^{\}mathrm{b}}\mathrm{See}$ Table 6 for names and meaning of variables.

^cSER=Special education/rehabilitation personnel.

Sample Sizes, Correlations, and Significance Levels for the AES-MR Attitude Levels and 22 Predictor Jariables for the Colombia SERC Sample TABLE 31

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											0/	,											
	6-Action	33/33(05)	-16/33/37	02/33/93	05/31/24	47/31(005)	07/32/71	32/33/06	26/33/13	55/33(001)	-07/31/71	04/33/80	02/33/68	28/32/11	17/31/34	22/32/22	05/30/77	20/32/24	12/32/51	01/33/94	01/33/8	-10/29/56	
	5-Feel	-14/33/39 35/3303	06/33/78	13/33/44	-18/31/21	-31/31/08	10/32/56	-12/33/46	08/33/65	04/33/80	09/31/65	-01/33/97	-04/33/81	11/32/52	01/31/95	-16/32/37	-17/30/34	-12/32/48	-26/32/14	13/33/46	13/33/46	-0 6/29/76	
ABS-MR Levels	4-Hypo	14/33/41 11/33/44	08/33/67	39/33/02	$22/31/\overline{21}$	-12/31/50	30/32/08	27/33/11	52/33(001)	29/33/09	16/31/38	30/33/02	07/33/68	-06/32/37	18/31/32	13/32/47	25/30/16	-01/32/95	-10/32/58	92/26/90	05/33/76	-20/29/27	
A	3-Moral	21/33/21 -12/33/50	42/33(01)	-17/33/32	18/31/31	-29/31/10	-25/32/16	-14/33/40	-01/33/93	27/33/12	04/31/81	20/33/25	14/33/42	-02/32/90	39/31/02	-11/ 32/52	05/30/76	-12/32/49	30/32/08	04/33/80	04/33/80	-05/39/82	
	2-Norm	-15/33/38 11/33/53	-01/33/98	-13/33/47	-06/31/72	전	73/	33	/33/	33/	줐	33	/33/	-03/32/85	년(35	8	35	-15/32/39	26/33/12	26/33/12	15/29/41	
	1-Stereo	-03/33/85 -16/33/35	-10/33/55	25/33/14			· · ·		٠.١	[r. /			٠. ١	12/32/49	(,)			., ,		(,)	G, J	CVI	
	var.b No.	152	17	18	19	8	디 #	22	23	72	25	%	27	82	53	ጸ	ᆏ	32	33	东	35	36	

See Table 30 for footnotes a, b, c.

Sample Sizes, Correlations, and Significance Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^D for the Germany SER^G Sample TABLE 32

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										00	,			l						ļ		
	0-Action	-39/147/005	-30/140/005)		03/147/67	12/142/15	-03/147/76	81/941/11	10/146/22	26/137/001)	-18/146/03	4/241/80		-02/148/83	05/146/58	02/142/81	-05/142/54		12/241/20-	05/241/10	-02/147/88	02/147/86
	7-reel	147	-20/140/005	_	-05/147/52	13/147/12	04/241/20	12/146/18	12/741/21	61/241/11	64/941/90-	94/241/90-	01/142/92	09/241/40	06/146/48	-03/142/64	03/147/68	04/147/59	-08/142/30	-02/147/77	09/241/40-	-10/147/23
ABS-MR Levels	odkih	-08/147/35	-17/147/03	04/147/62	01/147/98	12/142/14	-07/147/41	-05/146/53	02/146/37	₹/24T/80	-09/146/25	98/241/10-	-02/147/15	08/147/33	13/146/12	-02/147/79	06/241/10-	-10/147/22	10/142/24	6 1 1/41/90	_	-01/147/90
	J-Moral	61/147/005	68/147 (005)		141/241/90	-09/147/28	14/142/08	14/941/20-	146	747	08/146/30	02/147/84	07/147/42	19/241/40	-02/146/80	_	99/241/40			02/147/81		04/147/64
n o	Z-Norm	36/147 (005)	41/147/005	142	142	10/142/21	1441		146	-08/142/30	146/	7///	142/	-03/141/70		98/241/10	79/241/40	-25/147 (002)	15/147/06	88/ <i>L</i> /T0 -	03/741/50	-01/1 ₄₇ /97
10 1	1-Stereo	(500/241/17-	76/147/005	147/	147/	05/141/50	124	_	3	20/147(01)	146/			76/241/10-	16/147(05)	05/141/50	09/141/27	16/147/05	742	06/147/48	_	94/241/90-
l q	ម •	15	17	18	19	50	ನ	22	23	₹2	25	56	72	R	53	ጸ	ᆏ	ĸ	33	东	35,	%

ASee Table 30 for footnotes a, b, c.

TABLE 33

Sample Sizes, Correlations, and Significance^a Levels for the AES-MR Attitude Levels and 22 Predictor Variables^b for the Israel SER^c Sample

ABS-iR Levels	4-Hypo 5-Feel 6-Action	27/74/01 $45/74/005$ $27/74/01$ $20/74/08$ $19/74/10$ $18/74/13$	25/74/03	98/69/20	-06/57/64	14/58/28 -08/58/52 23/58/08	10/63/41	01/64/97	-20/25/09	69/89/50	06/72/62	25/73/03)	长/02/11-	-03/71/75	11/68/37	15/70/21	04/12/10	08/58/56	56/12/10 -	03/72/78		
	o 2-lorm 3-Moral	00 00 00 00 32/73/00 00 32/73/00 10/74/39	005) 05/73/69 -09/74/4		03) -01/56/92 02/57/9	97 02/57/90 06/58/67	7.1	90/69	69/	94/149	75 08/71/49 09/72/4		96/69	70/50		69/85	7/12/40- 62/02/01- 41/27/2	98 -01/58/97 -01/58/9	70/78	/48	29 -14/69/24 -16/70/1	
	Var.b 1-Stereo	15 29/73/	17 32/73/	18 -42/68/	19 27/56	27 01/57/9		23 -03/63/	146/94		712/40 97	72/10	769/ <i>L</i> 28	/20	30 -20/67/	13/	702/21	01/58/	/02/9 1- *E	35 -23/71	<i>∞</i> -13/69/	

^aSee Table 30 for fuotnotes a, b, c.



TABLE 34

Sample Sizes, Correlations, and Significance^a Levels for the AES-MR Attitude Levels and 22 Predictor Tariables^b for the U.S. Kentucky SER^c Sample

	6-Action	22/50/12	22/50/11	35/50(01)	(10) 8th/8K	-004/48/97	31/49@2	23/50/10	17/50/22	13/50/36	01/50/95	(TO) 64/45	-02/20/20	05/20	-05/50/20	20/50/15	12/49/38	-08/50/59	-07/50/63	13/50/34	-14/50/33	-14/50/31	14/50/32
	5-Fee1	28/50/04)	24/50/08	-02/50/88	94/84/40	-01/48/95	94/49/22	10/50/48	-17/50/23	14/50/32	-29/50/03)	-16/49/25	-27/50,03	04/50/26	28/50(04)	-12/50/扫	14/49/31	01/50/95	30/50@3	-07/50/63	-1 0/20/#6	-11/50/44	
ABS-MR Levels	4-Hypo	26/50/03)	23/50/10	27/50,09	23/48/10	29/84/90	30/49(03)	26/50/09	-01/50/92	-05/50/72	-24/50/08	10/46/46	-32/5002	19/50/18	+2/26/24	. 03/50/83	19/49/19	15/50/30	-01/50/92	15/50/27	16/50/25	13/50/35	03/50/82
1	3-Noral	19/50/18	16/50/26	04/50/77	-02/48/88	54/48/06	26/64/4700	-02/20/89	14/50/32	-04/20/22	04/20/80	t9/6t1/20	-20/50/16	-07/50/60	-14/20/34	05/20/20	23/49/11	30/2003	-24/50/08	54/50/06	28/20/05/	32/50/05	-10/20/46
	2-Norm	150 OS/15-	04/50/77	S	-09/48/53	87	<u>3</u>	<u>8</u>	3	S	50	<u>6</u>	છુ	있	750	જુ	<u>6</u>	8	-14/50/31	വ	004/50/97	03/50/82	워
	1-Stereo	-31/50/02	04/50/77	-27/50/05		12/48/42	<u>6</u>	<u>5</u>	03/20/83	05/50/75	3	-01/49/93	3	-31,50,02)	-09/50/53	5	641/	03/20/84		것	11/50/42	_	-02/20/60
<u>د</u>	var. No.	1.5	16	17	18	19	20	ಸ	83	- 23	. 24	25	%	72	38	53	8	ᆏ	ĸ	33	た -	£7;	R

See Table 30 for footnotes a, b, c.



TABLE 35

Sample Sizes, Correlations, and Significance^a Levels for the ABS-iR Attitude Levels and 22 Predictor Variables^b for the U.S. Texas SER^c Sample

	6-Action	96/29/100	36/50/03	-29/50/03	66/05/T00 -	-13/20/34	29/50	54/20/06	14/50/31	14/50/33	11/05/22	-04/20/22	-04/50/7	10/20/49	-12/50/39	16/05/10	69/05/90-	32/50(03)	-20/50/16	-08/20/59	SZ.	32/50/02
	5-Feel	12/50/39	-12/50/41	35/50/01	-17/50/23	05/50/73	-32/5003	-18/50/20	-08/50/57	-02/20/20	-01/20/64	05/20	06/50/67	69/05/90	-15/50/29	-22/50/11	04/20/26	14/50/31	21/50/13	27/05/61-	-34/50/01	-13/50/35
ABS-MR Levels	d-Hypo	14/50/32	09/05/20-	€ 0 / 05/62 -	-1.5/50/30	21/50/13	15/50/28	- 05/20/74	15/50/28	- 24/50/08	31/50/02	12/50/39	21/50/14	19/50/12	-11/20/46	-16/50/26	99/05/90-	-03/50/85	05/50/72	26/05/TO -	07/20/96	-06/50/67
	3-Moral	16/50/25	-08/50/57	16/05/20	-25/50/02	20/20/16	15/50/29	50/20/06	23/50/10	-16/50/26	16/50/24	12/50/38	50/50(003)	03/50/81	03/50/85	-14/20/34	-09/50/52	- 04/20/78	-05/50/74	08/05/40	-16/50/27	-19/50/19
	2-lorm	14/50/31	01/50/95	[S	8	ଝ	8	50	5	50	8	3	3	5	3	3	2	8	50	28/50/04	R	있
	1-Stereo	21/50/13	3/3		-12/50/40	50	50	50	50	5	50	50/	50	S	5	3	50	50/	50	-01/20/65	-04/20/22	12/50/41
	Var b No.	15	972	18	19	82	な	22	23	54	25	92	23	28	53	R	저	R	33	ホ	35	8

aSee Table 30 for footnotes a, b, c.



Sample Sizes, Correlations, and Significance Levels for the ABS-MR Attitude Levels and 22 Predictor^b Variables for the Colombia RST Sample

<u></u>]	-Stereo.					
		7 -NOLM	3-Mora1	4-Hypo.	5-Fee1	6-Action
02	02/401/62	01/401/81	09/401(05)	02/401/74	03/401/49	-01/401/89
-01	-01/398/77	07/398/17	13/398(01)	03/398/49	08/398/12	05/398/30
02	02/399/74	08/368/06	10/399 (05)	16/399(001)	04/399/43	06/399/22
04	04/348/41	03/348/64	07/348/18	16/348002	04/348/41	13/348@D
15	15/327(006)	07/327/23	05/327/33	25/327 (0005)	11/327(05)	01/327/83
-05	-02/350/70	04/350/51	06/350/27	15/350,000	19/350/0003	14/350
01	01/371/88	13/371	14/371(006)	15/371	17/371,000	22/371/0005
01	01/341/80	05/341/40	10/341/05	19/341	01/341/92	18/341/001
19	19/377(0005)	25/377 (0005)	21/377/0005	40/377 (000)	12/377(01)	37/377/0005
1),	-01/401/92	-02/401/64	-10/401/03	-04/401/36	11/401(03)
02	02/364/74	-08/364/11	13/364	-03/364/52	02/364/65	05/364/31
-03	-03/402/57	08/402/10	-10/402/84	-03/402/84	-03/402/49	04/402/43
-03	-03/400/51	05/400/28	01/400/82	-03/400/58	-07/400/17	-07/400/19
01	01/400/94	10/400	06/400/25	10/400	02/400/64	01/400/95
-05	-02/398/71	01/398/80	80/866/60	10/398	-04/398/44	06/398/20
-01	-01/399/84	-06/399/24	15/399(002)	-10/399	-10/399/89	-07/399/16
60	09/394/06	01/394/96	08/394/12	-11/394@3	-09/394/08	04/394/48
05	05/398/32	13/398(01)	11/398(02)	-01/398/82	-06/398/21	-01/398/79
05	05/397/35	-01/397/85	-01/397/79	13/397 OD	05/397/35	04/397/45
80-	-08/400/09	-03/400/61	09/400/02	-08/400/11	01/400/78	08/400/10
-03	-03/399/56	-02/399/71	04/399/41	-10/399	-01/399/78	10/399
-02	-02/387/75	03/387/54	02/387/71	04/387/49	01/387/77	-13/387 (01)

 $^{\mathrm{a}}\mathrm{See}$ Table 30 for footnotes a and b.

CRST=Regular School Teachers.



TABLE 37

Sample Sizes, Correlations, and Signifigance Levels for the ABS-MR Attitude Levels and 22 Predictor Variables for the Germany RST Sample

				AES-MR Levels		
Var.	1-Stereo	2-lorm	3-Moral	4-Hypo	5-Feel	6-Action
15	Et1/42/60	14/74/23	62/42/40	12/24/30	19/4/60	23/74/Q4
16	-07/24/56	-09/4/90	06/74/58	09/4/20	-10/74/39	7
1.7	07/74/55	-04/74/73	-16/74/17	-15/74/19	-12/24/30	-21/74/07
18	1761	66/44/100-	14/74/21	12/74/31	18/74/12	39/74/001
19	174/	-24/74(03)	-17/24/34	-05/44/66	-13/74/27	-01/4/60
02	73)	04/73/71	-26/73(02)	-06/73/59	06/23/59	18/73/13
な	74/	-12/24/14	76/46/40	20/44/08	01/44/65	13/74/0005
23	21/74/06	-01/24/93	14/74/22	12/74/30	28/74@D	42/74(0005)
; 23	CO/4/62	21/74/07	19/74/10	50/74(0005)	47/74 (0005)	38/24(001)
1 72	76	18/74/12	(IO) 4L/6Z-	12/74/29	5000 42/54	45/74/0005
25	-01/4/61	74/	-21/74/07	-02/74/83	76/46/40-	08/74/50
5,	-18/74/12	10/24/40	-15/74/18	-03/74/78	-12/74/30	-12/74/31
12	-12/73/29	-05/73/65	-18/73/12	-003/73/98	-05/73/69	-03/73/81
88	- 11/74/35	-07/74/55	20/4/02	12/44/29	-03/4/80	(6/ 1 /4/10
56	75/2/	-11/74/33	12/74/30	05/24/64	09/4//90	04/74/75
ጽ	-17/73/15	-03/73/78	-17/73/13	-33/73 / 004)	- 20/73/08	-12/73/31
덦	75	19/42/90	17/74/15	08/74/51	08/74/52	24/42/60
R.	12/2	-16/74/17	01/74/92	07/74/53	96/42/10-	65/46/90
33	74	12/24/14	-01/74/93	-05/74/67	11/74/36	-03/24/80
ま	03/4/18	05/44/65	01/74/93	09/4L/90	22/74(05)	02/42/40
35	01/73/96	03/23/60	03/73/82	12/73/30	23/23(04)	10/73/38
36	-02/7/4/88	04/74/76	06/74/62	-24/74(03)	-04/74/75	- 1 <i>9/24/</i> 10

a See Table 30 for footnotes a and b.

c RST=Regular School Teachers

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Table 38

Sample Sizes, Correlations, and Significance $^{\rm a}$ Levels for the ABS-MR Attitude Levels and 22 Predictor Variables for the Kentucky RST $^{\rm c}$ Sample

			ABS-M	ABS-MR Levels		
Var. No.	1-Stereo	2-Norm	3-Moral	4-Hypo	5-Fee1	6-Action
15	-08/54/57	-03/54/83	09/54/51	06/54/66	13/54/33	-15/54/27
16	-03/54/82	-04/54/78	05/54/74	12/54/37	-01/54/96	-23/54/08
17	09/53/52	24/53/08	01/53/92	17/53/20	-02/53/89	-08/53/55
18	-36/53/000	-18/53/19	13/53/35	19/53/17	09/53/53	18/53/19
19	22/52/T	01/52/91	-11/52/41	-17/52/22	05/52/70	-05/52/74
20	-09/53/53	41/53/002	25/53/19	18/53/19	36/53(00)	38/53/004
21	-08/23/28	35/53/009	15/53/26	21/53/13	33/53 (0 D	40/23/003
22	-21/53/13	16/53/23	18/53/19	25/53/06	17/53/22	33/53(0)
23	-22/53/10	15/53/23	22/53/11	29/53 @ 2	24/53/08	27/53(04)
77	-14/54/29	02/24/90	-04/24/60	-05/54/73	002/54/98	12/54/36
25	-22/54/11	-09/24/20	04/54/17	08/24/26	-10/54/48	-30/54(02)
26	-14/54/28	002/54/98	05/54/69	04/24/14	07/54/61	-15/54/26
27	-11/52/42	-06/52/67	-08/52/55	01/52/94	-06/52/65	-05/52/74
28	-05/54/71	-17/54/22	07/54/61	14/54/30	21/54/11	-11/54/43
29	-23/54/09	-34/54	-01/54/94	08/54/55	08/54/56	12/54/38
30	05/53/17	-06/53/67	02/53/88	-14/53/31	-09/23/20	-33/53@D
31	-18/54/19	-20/54/14	10/54/45	08/54/55	-07/54/63	-18/54/18
32	13/54/32	20/54/13	-03/54/80	-22/54/09	03/54/81	10/54/44
33	-06/54/65	11/54/41	-01/54/91	-07/54/60	15/54/28	-10/54/45
34	-11/54/43	-22/54/10	-09/24/49	11/54/43	-07/54/61	-21/54/13
35	17/54/22	-04/24/18	-04/24/18	05/54/73	13/54/33	05/54/72
36	-03/53/84	-05/53/73	-18/53/19	-21/53/12	-13/53/35	-28/53(03)

aSee Table 30 for footnotes a and b.

CRST=Regular School Teachers.



Table 39

Sample Sizes, Correlations, and Significance Levels for the ABS-MR Attitude Leveis and 22 Predictor Variables^D for the Texas RST^C Sample

	6-Action	-47/48A001	-27/48/06	-52/4880005	14/48/34	-12/48/42	18/48/20	04/48/16	08/48/26	16/48/28	22/48/12	08/48/28	22/48/13	C7/48/11	15/48/31	-09/48/55	-20/48/16	-08/48/29	-19/48/17	C1/48/94	09/48/55	05/48/71	-09/48/54
	5-Fee1	-23/48/11	-10/48/51	-14/48/33	-15/48/29	-20/48/16	-23/48/10	-07/48/63	-08/48/57	-004/48/98	09/87/80	13/48/38	39/48 (005)	22/48/11	-06/48/68	-01/48/97	-19/48/18	26/48/06	-26/48/06	14/48/34	30/48@3	22/48/13	10/48/50
ABS-MR Levels	4-Hypo	-04/48/80	21/48/14	16/48/28	08/48/28	-19/48/19	-02/48/87	-08/48/59	-04/48/11	21/48/14	-03/48/85	-10/48/49	51/48(0005)	15/48/29	-02/48/88	-13/48/35	-02/48/86	05/48/74	-18/48/20	20/48/16	08/48/28	13/48/36	15/48/29
ABS-MR	3-Moral	42/48/002	50/48(0003)	40/480004)	02/48/87	07/48/62	-01/48/94	-03/48/85	-10/48/50	24/48/08	-10/48/49	09/48/53	30/48@3	14/48/31	-26/48/06	15/48/29	32/48(02)	-02/48/89	19/48/19	38/48(007)	04/48/78	-05/48/90	-05/48/71
	2-Norm	05/48/73	14/48/34	-01/48/97	-16/48/26	-05/48/71	34/48@1	29/48	01/48/95	004/48/97	31/48(02)	08/48/26	16/48/26	14/48/35	-23/48/10	-16/48/27	-03/48/85	-03/48/83	18/48/21	-20/48/15	-10/48/49	-11/48/45	-11/48/45
	1-Stereo	(5 00 0) 87/25-	-42/48,0025	-52/48/000)	12/48/39	-20/48/16	27/48(05)	25/48/07	19/48/19	06/48/66	13/48/38	24/48/09	-04/48/80	22/48/12	11/48/45	1	-16/48/27	19/48/18	-22/48/12	-10/48/49	11/48/43	03/48/86	-10/48/48
	Var. No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

aSee Table 30 for footnotes a and b.



CRST=Regular School Teachers.

TABLE 40

Sample Sizes Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Jariables^b for the Colombia PMR^c Sample

ı	ı	1	1	1						i				ı						1			1	
	6-Action	99/66/41	19/100/06	10/100/30	05/26/66	04/89/73	11/16/91-	69/26/40	04/92/73	08/95/46	11/102/25	105/94/64	64/66/20	08/100/4 /	06/100/53	13/101/12	-16/102/10	₹/001/10-	07/100/62	-13/95/21	91/66/41	12/100/24	-12/96/23	
	5-Fee1	17/99/09	18/100/06	03/100/75	-12/92/23	-02/89/87	69/16/40	-01/92/97	-10/92/34	14/95/18	09/102/34	<i>15/1</i> 6/90	08/66/80	02/100/48	96/1001/60	-10/101/31	-12/102/22	-10/100/32	02/100/49	-05/95/62	64/66/80	15/100/14	06/96/53	
ABS-WR Levels	4-Hypo	01/66/91	12/100/09	-02/1001/20	-03/92/77	06/89/57	13/16/21	03/55/29	06/92/58	56/95(009)	12/102/24	18/94/07	11/99/28	10/100/32	15/100/12	10/101/34	02/102/87	14/100/15	03/100/62	11/95/28	C\$00 7 66/82	25/100 00	03/96/73	
A	3-Moral	19/66/61	28/100/004)	07/100/45	-19/92/06	23/89	-08/61/4	-16/92/12	-09/92/39	-05/95/66	02/102/87	-03/64/75	03/99/77	-03/100/32	89/001/40	16/101/91-	-21/102(03)	-01/100/93	01/100/86	-07/95/51	09/66/50	99/001/40	69/96/40-	
	2-Norm	17/99/02	20/100 (4)	18/100/07	08/92/45	89/68/470	01/61/65	05/92/64	-004/92/97	19/95/06	03/102/77	89/46/40-	66/66/60	20/100/04	01/001/91	-03/101/25	-06/102/52	14/100/14	15/001/20	-02/95/82	20/99/05	26/100,009)	08/%/भ3	
	1-Stereo	11/99/27	13/100/20	17/100/09	-09/55/40	13/89/21	02/91/87	-10/92/33	-11/92/29	04/95/72	-04/102/69	09/24/38	03/66/60	06/100/52	09/100/36	-06/101/57	-20/102(03)	03/100/77	05/100/65	-08/95/41	20/66/02	22/100/02	05/96/61	
	√ar, No.	15	J §	17	18	19	20	ゎ	22	23	7,2	25	26	27	83	29	· R	, 전	, R	33	ホ	35	36	

^aSee Table 30 for footnotes a and b.

CPER=Parents of Mentally Retarded



TABLE 41

Sample Sizes, Correlations, and Significance Levels for the ABS-MR Attitude Levels and 22 Predictor Variables for the Germany PMR^C Sample

ABS→MR Levels	3-Moral 4-Hypo 5-Feel 6-Action	$\frac{15/441/07}{12/441/53}$ $\frac{15/441/18}{12/441/51}$	17/144 (04) -13/144/13 -003/144/95	05/ተለፒ/ፒ0 ይያ/ተለፒ/20	, 19/138	-06/138/48 03/138/73	-02/131/83 14/131/12	- 08/137/34 02/137/34 29/137	15/135/09 - 03/135/68 20/135	16/139/06 01/139/91	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-07/143/38 -11/143/20	. 003/14/1/96 05/14/1/52	44/1/20 60/44/11/4/1-	/ተ/1/20	15/144/02 13/144/12 -04/144/62	/44/82 -07/44/12 -07/44/1		1441/20 25/4411/20- 62/441/60 86/441V	-24/142(004)	541/51 - 12/641/01 44 /641/90	(10) th 1/61- 05/th 1/90 2h/th 1/20	08/επι/60 6ι/επι/1ι - (30) επι/6ι (40) επι/9ι
R Levels	1		13/144/13	<u>06</u> /ψητ,	138.02	138/48	131/83	132/34	135/09	139/06	144/73	&	8/	144/25	05/144/55	21/441	71/1/85	144/75	72/44/1	142/78	143/51	144/50	743
A BS-M		20,	144 (04)											7144/62		0.7	(603)	05/11/20	144/88	(45/46	143/144	74/45	743
	2-Norm	03/144/74	-04/144/63	-01/1mt/0 1	-11/138/20	6	131/30	-05/137/52	135/17	1/31	144 (-03/241/20	17/4/17	04/4412/20	10/144/24	7#17	-08/144/35	-08/144/35	7144/86	-10/142/22		- 02/144/86	- 01/143/95
	1-Stere	12/144/16	-08/144/33	001/144/98	-04/138/60	12/38/21.	/88	01/137/98	-07/135/40	02/139/80	-12/144/15	35/143(0005)	03/11:4/69	-10/144/24	16/144/05	02/144/83	44/441/90-	144/14	07/144/43	-12/142/17	-02/143/79	16/441/10	コピカレノタに

^aSee Table 30 for footnotes a and b.



^CPMR=Parents of Mentally Retarded.

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Israel PMR^c Sample

TABLE 42

											98	}										
	_1	/38 /95	4	<u></u>	Į.	. 1	8		ശ് പ	ن	(3)	5	· <u>Q</u>	*	S	9	22	2	53	٠ċ	Ţ.	
	6-Action	25/12/38 -02/12/95	1/21/14-	68/12/003) -22/9/51		52/9/09	70/0/17/0/	on/9/To	1/21/86	-28/11/3	61/12(0	13/12/6	-26/12/3	02/2t/30	-23/12/42	24/21/42	-29/12/3	9/01/91-	34/12/23	1/21/04	24/12/4	
	5-Feel	01/12/97 $61/12/02$	-11/12/70	36/12/20 -31/9/35		37/9/25	61/11/14 در/و/۶۶	35/8/31	13/12/65	09/11/71	54/12/PD	52/12(05)	-09/12/75	13/12/64	36/12/21		-14/12/63	-32/10/31	49/2T/4T	-13/12/66	-31/12/27	1
ABS-MR Levels	η-Hypo	52/12 (05) 20/12/48	-17/12/55	77/12/001)		32/9/34	59/11/03	50/8/03	30/12/29	-07/11/81	15/12/61	38/12/18	35/12/22	-20/12/49	-09/12/75	39/12/16	-19/12/50	45/10/14	37/12/19	63/12(01)	-14/12/64	
	3-Moral	58/12/ 03 36/12/20	-47/12/08	61/12/03	201010	6/6/90	39/11/18	78/8/50-	60/21/09	03/11/91		18/12/54	21/12/48	-08/12/78		91/21/04	-06/12/85	35/10/26	31/12/28	(200)/21/89	-32/12/26	
	2-Norm	04/12/88 -24/12/41	-13/12/65	37/12/19 97/0/61	17 17 17 -	\circ	12/21/51	∞	18/12/53	É,	75	12/	6 1 /21/02 -	12/	42/21/24	27/12/34	12/	, [2]	-02/12/93	02/12/95	33/12/26	
	1-Stereo	82/12 (0005) 54/12 (04)	-38/12/17	42/12/13 -24/0/40	12/6/27	13/9/20	19/11/54	-20/8/57	04/21/11 -	-38/11/19	42/12/13	52/12(05)	-17/12/55	03/12/92	-20/12/49	53/12(04)	-12/12/67		-16/12/58	_	-07/12/80	
	Var. Bo	15 16	17	8 <u>7</u> °.) (? ()	턵	22	C)	₩	25	92	22	æ	6; 6;	8	댗	ĸ	33	ま	35	×	

^aSee Table 30 for footnotes a and b.

CPMR=Parents of Mentally Retarded.



Table 43

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Yugoslav FMR^c Sample

			ABS-1	ABS-MR Levels		
Var.	1-Stereo	2-Norm.	3-Moral	4-Hypo.	5-Fee1	6-Action
15	20/50/11	-12/50/36	03/50/85	20/50/16	19/50/17	07/50/64
16	14/50/31	18/50/19	17/50/23	47/50 (00) 0	28/50 (04)	12/50/39
17	-10/50/50	02/20/10	-31/50(02)	-11/50/42	-40/50 003	-11/50/45
18	11/50/45	-02/50/88	-18/50/19	59/05/90	04/50/77	20/50/16
19	-28/50/0 4)	13/50/37	-02/20/90	-17/50/21	-12/50/41	99/05/90
20	-07/50/61	-03/50/81	04/20/80	21/50/13	04/50/76	-02/20/90
21	-13/50/37	03/50/82	13/50/34	02/20/20	09/05/20	-11/50/42
22	21/49/13	-15/49/29	-01/49/97	37/49@007	21/49/14	03/49/83
23	10/50/47	07/50/61	13/50/35	07/50/62	03/50/81	-03/50/82
24	04/20/80	-03/50/85	15/50/28	05/50/74	12/50/74	-09/50/53
25	09/20/24	-04/50/79	-06/20/64	18/50/20	22/50/12	-15/50/28
26	03/20/85	-02/50/89	24/50/08	22/50/11	48/50,0005)	09/50/51
27	01/50/95	25/50/07	04/50/76	40/20(004)	36/50/01)	20/50/14
28	36/50(01)	12/50/41	08/20/21	12/50/40	11/50/42	-01/50/97
29	-15/50/29	-04/50/78	28/50	34/5000	24/50/08	-27/50@
30	-03/50/85	39/50000	19/50/ T 8	14/50/33	23/50/10	-46/50 0 01)
31	02/65/50	-04/49/75	15/49/28	09/49/24	19/49/19	-17/49/23
32	18/50/20	09/50/54	31/50(02)	28/50 @	18/20/19	-16/50/26
33	-01/49/97	-13/49/35	903/49/85	09/49/51	-27/49(05)	-12/49/40
34	-14/50/32	07/50/64	43/50/001	30/50(03)	11/50/43	-13/50/37
35	16/50/25	05/50/74	22/50/11	24/50/08	18/50/21	-01/50/97
36	25/50/07	13/50/36	07/50/61	-01/50/94	08/50/59	-01/50/93

^aSee.Table 30 for footnotes a and b.

^cPMR=Parents of Mentally Retarded.



Table 44

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Michigan PMRc Sample

			ABS-1	ABS-MR Levels		
Var. No.	1-Stereo	2-Norm.	3-Moral	4-Hypo.	5-Fee1	6-Action
15	-11/41/48	-14/41/38	-11/41/48	-04/41/81	04/41/81	01/41/98
16	-14/41/36	-13/41/42	24/41/12	23/41/13	10/41/53	33/41(03)
17	-03/41/87	20/41/20	31/41(04)	14/41/35	15/41/34	23/41/13
18	62/04/40-	-25/40/11	21/40/17	02/40/16	-08/40/61	31/40(04)
19	-03/41/86	08/41/59	08/41/60	11/41/49	34/41(02)	-06/41/72
20	-13/39/40	05/39/75	20/39/22	-03/39/86	38/39@	24/39/13
21	11/40/50	28/40/07	27/40/09	12/40/46	25/40/10	t
22	-13/40/41	-20/40/20	20/40/19	15/40/33	89/05/90-	34/40(02)
23	-02/39/90	01/39/95	07/39/68	30/39(05)	-04/39/78	26/39/08
24	02/41/91	-25/41/10	-26/41/09	-06/41/69	-10/41/50	12/41/44
25	07/41/64	37/41(01)	34/41/02	26/41/08	11/41/48	11/41/46
26	24/41/12	11/ 4/49	16/41/30	04/41/82	-10/41/50	-02/41/92
27	14/41/38	22/41/15	-02/41/90	04/41/79	-17/41/27	-20/41/20
28	-20/41/20	01/41/96	03/41/85	-03/41/82	20/41/19	-23/41/13
29	07/41/64	-12/41/44	02/41/91	16/41/30	-06/41/69	23/41/13
30	-08/41/59	15/41/33	16/41/30	21/41/17	15/41/33	09/41/55
31	07/41/64	-05/41/74	20/41/19	11/41/46	-11/41/48	09/41/58
32	25/41/11	13/41/39	-09/41/58	-07/41/66	-08/41/63	-07/41/63
33	-03/41/83	18/41/24	28/41/06	25/41/11	35/41(02)	22/41/16
34	-07/41/65	07/41/66	04/41/78	12/41/43	06/41/71	12/41/44
35	-12/41/44	04/41/80	-07/41/65	-01/41/93	-09/41/56	-10/41/52
36	01/40/96	-25/40/11	-14/40/38	-36/40(02)	-30/40(05)	-13/40/39

aSee Table 30 for footnotes a and b.

cPMR=Parents of Mentally Retarded.



Table 45

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Texas PMRc Sample

			ABS-M	ABS-MR Levels		
Var.	1-Stereo	2-Norm	3-Moral	4-Hypo.	5-Fee1	6-Action
15	-15/49/29	-15/49/28	-20/49/16	-05/49/74	01/49/97	-03/49/85
16	10/49/50	05/49/75	14/49/32	19/49/19	21/49/14	-10/49/50
17	10/49/46	-16/49/25	-43/49 (002)	10/49/46	-03/49/82	12/49/40
18	-07/49/62	-19/49/18	-17/49/22	-26/19/06	03/49/84	-34/49(01)
19	-05/49/07	-05/49/10	08/49/29	-05/49/72	-15/49/27	08/49/58
20	09/49/51	26/49/06	11/49/43	-17/49/24	-09/49/52	-14/49/32
21	15/49/30	34/49@1	-09/49/53	26/49/65	-07/49/62	26/49/06
22	-02/49/90	-30/49(03)	-28/49@ 0	-42/49(NO2)	07/49/64	-16/49/25
23	03/49/86	16/49/25	34/49(0)	31/49(02)	29/49	18/49/20
24	-18/49/19	94/65/50	08/49/55	02/49/87	-01/49/96	54/49/09
25	18/49/21	-08/49/56	-05/49/72	11/49/43	08/49/29	-24/49/08
26	-08/49/58	10/49/46	-07/49/61	95/65/80	-08/49/26	01/49/93
27	-19/49/19	-01/49/94	13/49 /35	03/45/81	-09/49/24	-17/49/23
28	19/49/18	54/49/09	09/49/23	-16,49/26	20/49/16	16/49/26
59	-03/49/85	16/49/24	-03/49/81	-04/49/81	09/49/52	02/49/89
30	20/49/16	04/49/18	10/49/49	-07/49/64	11/49/45	-38/40(00%)
31	-15/49/28	-17/49/23	-01/49/94	-13/49/35	23/49/10	69/64/90
32	79/67/90	05/49/72	-01/49/97	02/49/88	-25/49/07	-22/49/11
33	36/49(009)	13/49/35	002/49/98	-10/49/50	30/49(03)	04/49/19
34	13/49/35	-03/49/83	-03/49/84	21/49/13	28/49 @	-09/49/51
35	04/64/90	-09/49/24	-04/49/17	30/49(03)	09/49/55	-08/49/53
36	-26/49/06	-24/49/08	-10/49/46	69/ 6 7/90-	-01/49/96	9//69/70-

aSee Table 30 for footnotes a and b.

bpmR=Parents of Mentally Retarded.



Table 46

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Brazil MAN^c Sample

	6-Action	94/30 0005)	36/30 (0005)	-42/30/01)	-42/30(01)	-42/30(01)	-27/30/14	-58/30(0005)	78/30(0005)	62/30,0005	92/30(0005)	97/30(0005)	-90/308/06-	-60/30(0005)	(\$000)06/68	87/30,0005	92/30 (0005)	81/30/0005)	94/30,0005	95/30(0005)	94/30(0005)	88/30/0000	76/30(0005)
	5-Fee1		95/30(0005)	-49/30(005)	-49/30(005)	-49/30(005)	-24/30/18	-51/30(003)	70/30 (0005)	63/30/0005)	C 5000/0E/88	91/30/0005)	-89/30/0005	-48/30(006)	(\$000) 05/68	94/30/0005)	93/30/0000	80/30/0005	91/30/0005	93/30 0005	88/30/0003	86/30,000	74/30(0005)
ABS-MR Levels	4-Hypo.	-49/300004>	-61/30(0005)	21/30/24	21/30/24	21/30/24	15/30/42	13/30/46	-33/30/06	-29/30/11	-69/30(0005)	-63/30(0003)	64/30(0005)	54/30(001)	-43/30/01)	-35/30000	-46/30(009)	-38/30(03)	-46/30(008)	-68/30 00 00	(900)/06/14-	-42/30(OI)	-22/30/22
ABS-MR	3-Moral	\sim	92/30(0005)	-46/30(000)	600 06/97-	-46/30(009)	-25/30/16	-56/30 (001)	83/30 (0005)	65/30(0005)	85/3040005	94/30(0003	-83/300005	-43/30 (01)	(€000)/06/68	91/30(0005)	95/30(0005)	82/30(0005)	95/30/0005	89/30 (0005)	94/30(0005)	86/30(0005)	82/30(0005)
	2-Norm	§0.0/0E/98	93/30/00:39	-42/30/01)	-42/30/01	-42/30@]	-21/30/25	-46/30(009)	71/30,0005	69/30 0 000	\$000000E/06	83/30(0005)	-81/30(0005)	-46/30(008)	87/30/0005	86/30(0005)	91/30 0003	81/30/0005)	87/30/0005	91/30 (0005)	85/30/0005	76/30/0005	75/30 0005)
:	1-Stereo	300000000000000000000000000000000000000	€000006/56	-44/30%01		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-21/30/25	-45/30 (0))	71/30,0005	58/30(001)	\$0/30 0 000	95/30/000	-93/300/0005	-56/30 %001)	£5/30 (0 000)	89/30/0005	30/30/0005	74/30/0005)	90/30(0005)	97/300005	60000000/06	85/30,00050	69/30(0005)
	Var. No.	15	16	17	18	19.	20	21	22	23	24	25	26	27	20	29	30	31	32	33	34	35	36

 $^{\mathbf{a}}$ See Table 30 for footnotes a and b.

^bMAN≕ Managers



TABLE 47

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables for the German MAN^c Sample

	6-Action	16/33/14	01/83/90	-12/82/26	47/80/0005	-29/81(008)	22/82/04	05/83/6	61/83(0005)	45/83(0005)	02/83/87	14/83/21	03/83/75	-20/83/05	12/83/29	-10/83/38	-02/83/84	-08/83/48	-1 4/83/20	06/83/58	09/83/43	-03/82/80
	5-feel	-10/83/38	08/83/48	u02/82/98	01/80/95	-07/81/55	24/82/02	25/83/02	03/83/79	07/83/52	30/83/006	-23/83/32	-04/83/74	-004/83/97	-19/83/08	03/83/81	03/83/Rn	-15/83/17	-03/83/75	24/28/60	-01/83/91	-07/82/51
ABS-MR Levels	odk I- η	15/83/16	04/83/74	11/82/31	10/80/35	08/81/45	-04/82/71	-07/83/52	16/83/15	02/83/86	05/83/65	04/83/40	12/83/13	-20/83/06	14/83/20	- 21/83(04)	-12/83/28	- 002/83/98	-12/83/25	22/83@	30/83(003)	=T/29/7T9
	3-lioral	83	o┾/£8/6o -	-07/82/51	92/86/26	<u>1</u> 8	85	/83/	33	-07/83/54	33,	15/83/18	16/83/13	-03/83/76	-003/83/97	-01/83/96	-02/83/88	- 08/83/44	-15/83/16	22/83(0th)	21/83/05	Z0/Z0/Z0=
	2-Norm	-02/83/89	-08/83/48	82	60/08/61-	ਹੁ	85	83/	07/83/4	83	-11/83/32	O4/83/40	-02/83/83	69/88/40	06/83/61	-21/83/05	02/83/87	-11/83/30	07/83/53		17/88/11	71/20/51
	1-Stereo	19/68/90	-17/83/13	03/82/79	-03/80/78	0 1/ 81/6	-03/82/78	01/83/6tr	-04/83/75	-04/83/74	-13/83/25	-10/83/38	02/83/88		_	838	/83/	/83/	83	/83/	08/83/47	•
	Var. No.	15	376	1.7	18	19	20	_ਹ	87.	123	24. 25.	3%	22	82	59	ଛ	텄	8 2	33	き	£7%	2

 $^{\mathrm{a}}\mathrm{See}$ Table 30 for footnotes a and b.

CMAN=Managers/Executives



Table 48

Sample Sizes, Correlations, and Significance a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables bfor the Kentucky MANC Sample

1-Stere 2-NOTAIL 4-Hypo. 5-Feel 16/20/42 -02/20/75 43/20/04 05/20/82 62/20/02 -32/20/14 -18/20/41 26/30/24 -13/20/58 07/20/74 -32/20/14 -18/20/41 26/30/24 -13/20/58 07/20/74 -00/19/98 -22/19/33 30/19/19 -01/19/98 -41/19/06 -01/19/99 -22/19/33 30/19/19 -21/19/34 -18/19/13 -01/19/99 -22/19/34 11/19/63 -21/19/34 -41/19/06 -07/19/15 -02/19/93 11/19/63 -21/19/34 -41/19/06 -11/19/63 -05/19/83 12/19/59 -41/19/06 -15/19/51 16/19/50 09/19/68 -19/19/40 -16/19/50 -15/19/53 16/19/59 -31/19/15 -16/19/50 -15/19/53 26/19/24 -31/20/02 -15/19/53 -16/19/53 -11/20/63 -11/20/03 -17/20/05 -12/20/36 -12/20/36 -11/20/03 -27/20/05 -12/20/39 -14/20/05 <td< th=""><th>-</th><th>* 0</th><th>ABS-N</th><th>ABS-MR Levels</th><th></th><th></th></td<>	-	* 0	ABS-N	ABS-MR Levels		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1-Stereo	2-Norm	3-Moral	4-Hypo.	5-Fee1	6-Action
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15/20/42	-02/20/75	43/50/04)	05/20/82	62/20(002)	15/19/50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-32/20/14	-18/20/41	26/30/24	-13/20/58	07/20/74	45/19(04)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	004/19/98	08/19/73	39/19/08	34/19/13	-18/19/43	-12/19/61
-32/19/15 08/19/74 -22/19/34 18/19/42 -02/19/93 11/19/63 05/19/83 -01/19/83 -05/19/83 -05/19/83 -05/19/83 -05/19/84 -12/19/59 -19/19/40 -15/19/51 16/19/50 09/19/68 -19/19/40 -15/19/53 26/19/24 32/19/15 29/19/19 -00/20/38 -36/20/10 -18/20/42 20/20/37 -001/20/99 -06/20/78 -14/20/52 -21/20/03 -21/20/03 -21/20/03 -21/20/03 -21/20/03 -21/20/03 -21/20/03 -21/20/03 -21/20/03 -21/20/03 -25/20/26 -25/20/33 35/20/11 17/20/46 -26/20/44 -14/20/52 -25/20/25 34/20/12 26/20/77 -14/20/52 -25/20/25 34/20/12 26/20/77 -14/20/52 -25/20/25 34/20/12 26/20/46 -37/20/09 -25/20/28 16/20/48 -22/20/33 11/20/62 -45/20/03 -25/20/31 -11/20/62 -45/20/03	-001/19/99	-22/19/33	30/19/19	-01/19/98	-41/19/06	40/19/72
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-07/19/75	*32/19/15	08/15/74	-22/19/34	18/19/42	12/19/61
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-11/19/63	-02/19/93	11/19/63	05/19/83	-0,/19/76	27/19/23
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-17/19/45	04/19/85	-05/19/83	12/19/59	€4/19/88	02/19/93
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-16/19/50	-15/19/51	16/19/50	09/19/68	-19/19/40	26/19/009
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	24/19/22	-15/19/53	26/19/24	32/19/15	29/19/19	37/19/10
-25/20/26 -11/20/63 -21/20/36 -61/20/003 -12/20/59 -55/20/008 -45/20/03 -21/20/36 -21/20/36 -001/20/99 -06/20/78 -14/20/52 -08/20/74 0 -25/20/26 -22/20/33 35/20/11 17/20/43 -20/20/38 22/20/32 -16/20/46 -26/20/24 -14/20/53 38/20/07 -06/20/77 -14/20/52 -25/20/25 34/20/12 26/20/77 -14/20/52 -25/20/25 34/20/12 26/20/77 -14/20/52 -25/20/25 34/20/12 26/20/77 -14/20/52 -25/20/26 -17/20/46 -37/20/09 -24/20/29 -35/20/11 -11/20/63 -11/20/62 -45/20/03	-03/20/89	20/20/38	-36/20/10	-18/20/42	20/20/37	-003/19/99
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-41/20/05)	-25/20/26	-11/20/63	-21/20/36	-61/20(003)	01/19/96
-001/20/99 -06/20/78 -14/20/52 -08/20/74 0 03/20/89 -18/20/42 -08/20/72 48/20/03 - -25/20/26 22/20/33 35/20/11 17/20/43 - -20/20/38 22/20/32 -16/20/46 -26/20/24 - -14/20/53 38/20/07 -06/20/77 -14/20/52 - -25/20/25 34/20/12 26/20/77 -14/20/52 - -25/20/25 34/20/12 26/20/24 31/20/15 - -25/20/25 22/19/34 24/19/29 13/19/56 - -06/20/85 -06/20/80 -17/20/46 -37/20/09 - 24/20/28 16/20/48 -22/20/33 11/20/62 - -35/20/11 -11/20/63 -11/20/62 -45/20/03 -	-42/20	-12/20/59	-55/20,008	-45/20/@3	-21/20/36	-24/19/30
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	09/20/10	-001/20/99	-06/20/78	-14/20/52	-08/20/74	001/19/95
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21/20/35	03/20/89	-18/20/42	-08/20/72	48/20/02	-06/19/80
-20/20/38 22/20/32 -16/20/46 -26/20/24 -14/20/53 38/20/07 -06/20/77 -14/20/52 -25/20/25 34/20/12 26/20/24 31/20/15 - 13/19/56 22/19/34 24/19/29 13/19/56 04/20/85 -06/20/80 -17/20/46 -37/20/09 - 24/20/28 16/20/48 -22/20/33 11/20/62 - -35/20/11 -11/20/63 -11/20/62 -45/20/03	24/20/27	-25/20/26	22/20/33	35/20/11	17/20/43	08/11/80
-14/20/53 38/20/07 -06/20/77 -14/20/52 -25/20/25 34/20/12 26/20/24 31/20/15 - 13/19/56 22/19/34 24/19/29 13/19/56 04/20/85 -06/20/80 -17/20/46 -37/20/09 - 24/20/28 16/20/48 -22/20/33 11/20/62 - -35/20/11 -11/20/63 -11/20/62 -45/20(03)	-13/20/57	-20/20/38	22/20/32	-16/20/46	-26/20/24	(400×61/09
-25/20/25 34/20/12 26/20/24 31/20/15 - 13/19/56 22/19/34 24/19/29 13/19/56 04/20/85 -06/20/80 -17/20/46 -37/20/09 - 24/20/28 16/20/48 -22/20/33 11/20/6235/20/11 -11/20/63 -11/20/62	-31/20/57	-14/20/53	38/20/07	-06/20/77	-14/20/52	22/19/33
13/19/56 22/19/34 24/19/29 13/19/56 04/20/85 -06/20/80 -17/20/46 -37/20/09 - 24/20/28 16/20/48 -22/20/33 11/20/62 - -35/20/11 -11/20/63 -11/20/62 -45/20(03)	17/20/44	-25/20/25	34/20/12	26/20/24	31/20/15	-08/19/73
04/20/85 -06/20/80 -17/20/46 -37/20/09 - 24/20/28 16/20/48 -22/20/33 11/20/62 - -35/20/11 -11/20/63 -11/20/62 -45/20(03)	36/19/10	13/19/56	22/19/34	24/19/29	13/19/56	45/19/00
24/20/28 $16/20/48$ $-22/20/33$ $11/20/62$ - $-35/20/11$ $-11/20/63$ $-11/20/62$ $-45/20(03)$	-31/20/16	04/20/85	-06/20/80	-17/20/46	-37/20/09	-08/19/74
-35/20/11 $-11/20/63$ $-11/20/62$ $-45/20(03)$	-19/20/38	24/20/28	16/20/48	-22/20/33	11/20/62	-05/19/84
	-20/20/38	-35/20/11	-11/20/63	-11/20/62	-45/20(03)	29/19/19

aSee Table 30 for footnotes a and b.

CMAN=Managers/Executives



Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Brazil PNR^c Sample

i	l	ı	l i			11	J.	ł			ł	ł
	6-Action	28/29/12 76/290007	-19/29/31	39/03/005	94/29/0003	65/29/0005)			79/29/0005	75/29 0005) 84/29 0005)	69/29/000 5 56/29/001	60/29(0005)
	5-Feel	77/29/0005) 90/29/0005)	-31/29/08	72/29/0005)		77/29/0005	41/29/02	78/29/0005) 93/29/0005	89/29 <mark>(0005)</mark> 73/29(0005)	87/29 <u>(0005)</u> 70/29(0005)	76/29 <u>(0005)</u> 59/29(0005)	80/39(0005)
ABS-MR Levels	4-Hypo	92/29/0005	05/29/81	67/29	13/29/48 15/29/41	68/29/0005	62/29/0005	80/29/0005 82/29/0005	72/29 <u>(0005)</u> 69/29 <u>(0005)</u>	71/29 <u>(0005)</u> 54/29(003)	71/29 <u>70005</u> 53/29 <u>7002</u>	84/3840005
A	3-rioral	76/29/0005) 96/29/0005)	-26/29/16	76/29/0005	65/29(0005)	82/29/0005	. ~ ~	89/29/0005 95/29/0005	95/29 <mark>(0005)</mark> 82/29 <u>(0005)</u>	96/29 <u>(0005)</u> 85/29 (0 005)		87/2940005)
	2-lorn	63/29(0005)	-31/29/08	60/29 (000)	71/29/0003			81/29/0005 86/29/0005	92/29 /0005 85/29 /0 005	9/29/0005 80/29/0005	78/29/0005	83/29/0005)
	1-Stereo	46/29/009) 86/29/0009	-28/29/12	51/29/00	90/29/0005	2000 12900 12900	17/29/35 29/29/11	78/29 <u>(0005)</u> 77/29 <u>(0005)</u>	87/29/0005 76/29/0005	88/29/ <u>0005</u> 86/29/0005	80/29/0005	6000/62/T/.
	Var.b No.	15,71	17	18 19 20	3 ៧ ៧ ខ	74 %	26 27	28 29	ಜ ಜ	ಜಜ	ያ አ	2

^aSee Table 30 for footnotes a and b.

c -Parents of Non-Retarded.



TABLE 50

Sample Sizes, Correlations, and Significance Levels for the ABS-MR Attitude Levels and 22 Predictor Variables for the Germany PNR Sample

-	ļ		1								1	10 2	6 ()									1
	6-Action	11/69/35	23/69/05)	33/65/002	17/63/17	-02/69/87	08/69/50	€ /69 / 020	36/69(002)	21/65/08	03/68/82	-20/69/08	69	37/69/002)	69	002/69/98	-04/69/75	-07/69/55	27/69/72	99/69/50	_	10/62/39
	5-Feel	-29/69/ ① -03/69/79	-05/69/67	<i>2</i> ₹/59/60	-04/63/73	94/69/60	01/69/61	76/69/TO	-12/69/31	21/69/9T -	LL/89/6L-	6/69/90	92/69/40	92/69/110-	08/69/52	-14/69/25	志/69/20 -	08/69/80	-04/69/75	05/69/20	_	-02/67/87
ABS-MR Levels	сдун∤	08/69/52 14/69/23	02/69/87	15/59/80	08/53/53	69	27/69/18	69	CIO 69/62	62/69/20	-10/68/42	17/49/15	14/69/25	56/69(03)	17/69/15	45/69/20	31/69(009)	28/69(0I)	05/69/67	66/69/100		07/67/58
A	3-Moral	05/69/66 16/69/19	03/69/29	12/65/31	63	50/69/02	21/69/02	65/69/20	21/69/78	8tt/69/80	-11/68/35	69,	19/69/90	/69	26/69(03)	13/69/21	14/69/23	(5000)69/17	-1 0/69/42	13/69/28	15/69/20	+6/29/10-
	2-Norm	-08/69/51 05/69/22	09/69/90-	-02/65/87	03/63/81	52/69/06	13/69/26	-04/69/75	15/69/20	01/69/63	-19/68/12	26/69/03	22/69/06	69/69/90	169/	14/69/25	07/69/01		-19/69/11	/69	<i>1</i> 69/	-05/67/67
	1-Stereo	-10/69/38 04/69/40	(†100)69/1/6-	-11/65/39	61/69/91	-0 4/69/72		_	15/69/20	22/69/ 1 10 −	£9/89/90 -	04/69/75	-17/69/15	长/69/20	-08/69/50	14/69/23	111/69/60	02/69/89	05/69/65	16/69/10	_	-01/67/94
	Var. No.	15 16	17	18	19	20	77.	77	23	75	25	3 6	22	28	56	R	표,	R	33	な	35	%

 $^{\mathrm{a}}\mathrm{See}$ Table 30 for footnotes a and b.

CPNR=Parents of Non-Retarded.



TABLE 51

Sample Sizes, Correlations, and Significance Levels for the ABS-MR Attitude Levels and Predictor Variables^b for the Israel PNR Sample

ļ	ì	l	i	1						i	17	2								l		;	
	tion	-04/43/80	42/75	/43/16	90/66/	31/93	33/38	/33/18	38/09	44/03)	きを	61/44	42/50	12/42/4)	92/44	43/14	02/14	16/44	/38/38	39/64/	/43/27	/1/19	
	6-Action	/10-	05/45/	77/12	32/	01/10	/> -/> -/	23/	27/	32/1	/or -	707	701	12/	-05/1	-22/1	1/90 -	05/1	003/38	1/90	72/1	70/1	
	5-Feel	12/64/90	-09/42/56	18/43/23	19/33/28	-10/31/57	16/33/005	19/33/27	28/38/08	21/44/12	-21/44/12	99/11/20	-07/42/63	-001/42/97	-33/44/02	-59/43/0005)	02/44/87	08/1/11/10	21/38/18	18/63/54	-04/43/81	08/14/62	
AES-IR Levels	οdΛ <u>H</u> -η	-04/43/78	99/2π/Z0 -	18/43/24	33/33(05)	-13/31/46	74/33/43	02/33/91	36/38(02)	85/trt/80 -	13/44/62	36/44/61)	17/42/27	15/45/31	-09/44/50	05/43/60	89/44/90-	02/44/20	-32/38/OF)	06/43/72	19/43/22	-01/41/95	
	3-Moral	78/64/60-	14/42/38	11/43/45	15/33/38	-14/31/45	(TO)82/27	-04/33/82	15/38/35	90/th/82 -	52/44/14	62/44/40	03/42/86	05/42/73	去/主/60	19/43/20	02/44/31	86/141/400	13/38/40	21/43/12	58/43/06	-02/41/91	
	2-ilorm	_	42	43	-08/33/63	42/18/90	02/23/20		19/38/23	1777	1	03/44/83	42	30/45/04	Ē.	743	Ē	1	-25/38/11	-13/43/40	-03/43/82	22/41/15	
	1-Stereo	-01/43/62	-11/42/48	004/43/62	-03/33/87	-20/31/26	-03/33/85	_	18	1	92/44/21-	13/44/38	_	15/45/34	35/44(01)	14/43/36	_	$\hat{\epsilon}$	-22/38/16	C2/43/91	-02/43/89	-04/41/78	
	Var. No.	15	16	17	18	62 82	3 ₹	1 23	ಬ	7 2	25	2 6	27	28	59	R	R	ĸ	33	ネ	<i>X</i>	<u>بې</u>	

^aSee Table 30 for footnotes a and b.

CPNR=Parents of Non-Retarded.



Table 52

Sample Sizes, Correlations, and Significance a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables b for the Yugoslav PNR Sample

18	4-Hypo. 5-Feel 6-Action	34/49(01) -01/49/94 -22/49/11	-08/49/59 -06/49/77 -06/49/67	04/49/79 21/49/12 -03/49/83	14/26/46 -36/26(05) 46/26(01)	15/26/45 10/26/62 -21/26/28	20/26/31 -27/26/19 35/26/07	24/41/12 -08/41/60 19/41/22	57/46/0005) -22/46/14 54/46/0005>	29/49(03) 11/49/42 36/49(01)	03/49/81 10/49/49 -17/49/23	01/49/99 -26/49/06 27/49/05)	'	-29/49(04) 22/49/11 -26/49/06	-11/49/43 19/49/18 -18/49/20	17/48/25 16/48/26 10/48/48	-13/49/36 -43/49/001) 10/49/47	1	- 02/48/91 - 32/48 (02) 06/48/68	21/49/13 -11/49/45 13/49/37	-20/48/10 16/48/27 04/48/76	.09/48/55 2?/48/10 14/48/33	66011 30 061011 301011 301011 30
ABS-MR Levels	2-Norm 3-Moral 4-1	- 23/49/10 08/49/5834	05/49/74 27/49(05) -08	05/49/71 -05/49/71 04	10/26/60 2:/26/16 14	-02/26/90 -26/26/18 15	24/26/21 46/26/ ① 20	03/41/84 07/41/66 24	24/46/10 34/46(01) 57	-17/49/22 05/49/74 29	07/49/60 -08/49/57 03	16/49/27 13/49/36 01	-23/49/10 -24/49/09 -12	-23/49/10 -10/49/50 -29	-14/49/33 -20/49/16 -11		•	·	20/48/15 29/45 04 -02		-18/48/21 -10/48/50 -20	-04/48/77 10/48/47 -09	20 01/07/00 03/07/70
	Var. 1-Stereo	-23/49/10			18 -14/26/46	06/26/74	-28/26/14	-21/41/17	-04/46/19	-28/49 (04)	-33/49/QT)	27 /49 🐠)	-12/49/41	17/49/23	-16/49/26	69/84/90-	20/49/16	18/49/22	32 05/48/72		1	7	11/07/60

^aSee Table 30 for footnotes a and b.

bPNR=Parents of Non-Retarded.



Table 53

Sample Sizes, Correlations, and Significance a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables $^{\rm b}$ for the Michigan PNR Sample

T-OCET CO			0	- 00	A A A & A
	7 - 10 111	3-MOL at	4-Hypo.	3-ree1	o-Action
07/33/69	25/33/14	24/33/16	39/33 (02)	26/33/13	28/33/10
08/33/63	14/33/39	01/33/99	03/33/85	01/33/94	-01/33/95
06/33/71	08/33/66	26/33/12	21/33/23	31/33/07	30/33/08
-26/33/12	-28/22/10	21/33/22	06/33/72	56/33(0005)	30/33/08
	03/32/88	-05/32/78	05/32/77	01/32/96	-31/32/07
-64/32(0005)	-26/32/13	32/32/06	39/32/02	58/32/0005)	44/32(009)
-52/33(00I)	-11/33/53	47/33(005)	40/33(01)	60/33/0005)	58/33/0005)
-18/33/31	-20/33/25	-01/33/99	19/33/28	66/33/00055	54/33(00T)
-47/32005	-19/32/28	28/32/10	49/32(003)	54/32 00D	75/32(0005)
-26/33/13	11/33/53	-05/33/75	-27/33/11	32/33(05)	37/33,02
06/33/75	12/33/49	21/33/23	05/33/76	42/33(01)	39/33/01)
-22/33/21	-05/33/77	-05/ 3 3/76	-14/33/42	16/33/33	31/33/06
-37/33(02)	-08/33/64	-03/33/86	-22/33/20	08/33/61	32/33/06
-26/33/13	-19/33/28	32/33/06	41/33/01)	34/33(04)	17/33/33
-04/33/82	-11/33/54	18/33/29	-28/33/10	-14/33/42	10/33/57
07/33/69	03/33/86	-11/33/51	-30/33/07	03/33/86	18/33/29
14/33/44	16/33/35	-17/33/34	-37/33(02)	14/33/41	20/33/24
-37/33/03)	-14/33/43	21/33/22	31/33/07	15/33/39	24/33/16
09/33/61	02/33/92	-15/33/39	18/33/30	12/33/49	-04/33/82
-04/33/81	17/33/33	12/33/49	15/33/40	01/33/99	-11/33/53
-12/33/50	15/33/38	35/33@ 4	09/33/29	02/33/89	-11/33/49
20/33/24	-08/33/65	-25/33/14	-09/33/59	-19/33/26	03/33/87

a See Table 30 for footnotes a and b.

^cPNR=Parents of Non-Retarded.



Table 54

Sample Sizes, Correlations, and Significance $^{\rm a}$ Levels for the ABS-MR Attitude Levels and 22 Predictor Variables for the Texas PNR Sample

			ABS-M	ABS-MR Levels		
Var.	1-Stereo	2-Norm	3-Mc:al	4-Hypo.	5-Fee1	6-Action
15	03/76/76	14/76/23	12/76/28	19/76/10	-02/76/88	23/76(04)
15	05/16/69	-14/76/23	04/76/75	09/76/43	10/76/37	01/76/94
17	-15/76/20	-25/76(03)	19/76/08	18/76/11	-09/16/43	08/76/47
18	94/92/80	-08/76/47	-004/16/97	14/76/23	08/46/50	25/76/02
19	45/75(0005)	18/75/11	07/75/56	16/75/15	-02/75/85	-02/75/85
20	10/76/38	-10/76/39	.03/76/80	15/76/19	-06/76/58	28/76(01)
21	-03/76/81	09/9//90	10/76/40	21/76/06	-04/16/16	29/76(01)
22	13/74/27	-10/74/39	02/74/83	20/74/08	16/74/16	37/74(001)
23	15/76/20	10/76/40	36/76(00T)	35/76,002)	25/76(02)	44/76(000\$)
24	06/76/62	-01/76/94	11/91/70	04/76/74	13/76/26	-05/16/66
25	03/5/80	01/76/96	28/76@D	24/76/03	08/76/47	30/76(008)
26	-25/75(03)	-11/75/36	04/75/73	-03/75/00	05/75/67	17/75/13
27	-27/76(01)	-12/76/28	19/76/10	14/76/21	02/76/84	28/76(01)
28	15/76/18	15/76/20	14/76/22	-02/76/83	08/16/48	16/76/17
29	-15/76/18	-03/76/81	30/76(008)	17/76/14	-05/76/63	20/16/08
30	04/16/74	06/76/58	13/76/26	22/76(05)	-11/76/34	-04/76/72
31	20/76/08	16/76/17	14/76/21	11/76/34	19/76/10	08/16/49
32	03/76/78	-05/76/68	-01/76/39	-10/76/39	17/76/14	01/76/95
33	13 73/27	-10/73/38	13/73/28	03/73/82	-10/73/37	-07/73/57
34	09/76/43	10/76/38	17/76/13	03/16/19	09/76/41	08/16/50
35	-01/76/95	-08/16/50	11/76/34	01/76/90	07/76/55	14/76/21
36	-23/76(03)	-12/76/31	-02/76/83	11/76/35	-04/16/16	03/16/78

 $^{\mathrm{a}}\mathrm{See}$ Table 30 for footnotes a and b.

 $^{
m bPNR=Parents}$ of Non-Retarded.



TABLE 55

Sample Sizes, Correlations, and Significance $^{\rm d}$ Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Total SER^C Sample.

		125 110a
	6-Action	-01/384/85 -01/382/95 -31/381/0005 -02/345/69 03/356/55 -21/299/0005 -01/362/98 -07/367/19 07/371/19 -01/384/85 -18/372/0005 13/382/01 04/382/43 -13/378/01 04/382/43 -13/378/01 -01/377/85 -21/374/0005 03/379/52 -10/366/04 -05/379/31
	5-Feel	09/385/07 03/382/51 -30/381,005 01/347/82 04/358/44 -01/299/95 12/364/02 -02/369/76 09/373/07 -08/386/11 01/378/94 -06/379/22 02/379/58 -06/379/22 02/379/58 -06/379/22 02/379/58 -06/368/24 -05/381/35 -01/383/91 01/376/95
Levels	4-Hypo.	18/384,0005 15/382,004 15/381,003 10/347/86 04/35/45 20/299,0005 12/364,011 03/369/54 11/373,03 -01/386/81 25/374,0005 01/384/80 01/384/80 15/379,004 02/379/58 04/376/38 -05/381/36 -05/381/36 08/376/12
ABS-MR Levels	3-Moral	36/383/0005 33/381/0005 49/380/0005 -05/346/40 06/357/30 -01/299/82 08/363/12 02/368/72 -03/372/53 -10/385/05 09/373/07 -04/382/43 04/382/43 04/383/49 02/378/68 07/375/15 05/377/32 -16/380/06 05/377/32 -16/380/33 08/382/12
	2-Norm	12/383(01) 05/381/28 01/38/96 -13/346(01) 08/357/13 -23/299(0005) -14/368(009) -16/372(002) -16/372(002) -16/372(002) -18/373(00) -18/373(00) -18/373(00) -10/383/79 -22/378(0005) 01/383/79 -22/378(0005) 01/383/79 -10/375(05) 13/377(01) -09/380(06) -10/367(06
	1-Stereo	-39/383/0005 -35/381/0005 -58/38/0005 05/347/32 05/358/34 -03/299/56 -16/369/62 01/373/82 01/373/82 01/388/4/005 04/383/4/1/22 12/379/01 -01/376/7/1/20/378/0005 18/381/01 -16/368/001 08/381/1/1/20/378/001
Var.	No.	1111112222333333 20122333333333 201223433733 20122433 20132433

aSee Table 30 for footnotes a and b.

bSER=Special educatior/rehabilitation personnel.



Table 56

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Total RST Sample

				ABS-MR Levels		
Var. No.	1-Stereo	2-Norm	3-Moral	4-Hypo.	5-Fee1	6-Action
15	-41/1092(0005)	-10/1093 (0005)	23/1003 (0005)	-02/1093/62	12/1093(0005)	-20/1093(0005)
16	-46/1092/0005	07/1093,03	29/1093 (0005)	-07/1093(01)	-04/1093/23	-10/1093(001)
17	-38/1088 (000)	-30/1089/0005)	10/1089(001)	03/1089/41	07/1089(01)	-44/1089(0005)
18	-06/1009	02/1009/575	06/1009/07	03/1089/40	-01/1009/78	04/1009/20
19	02/584/02	-03/984/29	01/984/95	05/984/15	06/984(04)	02/884/09
20	-08/731 (0)	11/731,003	06/131/09	-05/731/19	-02/731/52	05/731/17
21	-02/984/47	(500/486/60	03/984/29	-02/9≿./61	-01/984/78	(800) 786/80
22	€0) 626/90-	04/979/17	80/626/90	01/979/77	02/979/57	05/979/10
23	01/1039/84	12/1039,0005	16/1039,0005	06/1039/06	06/1039(05)	12/1039(0005)
24	-05/1089/11	-19/1090/0005	-05/1090/12	04/1090/18	13/1090/0005)	-12/1090/0005)
25	-29/1026 0005	-26/1027 (0005)	06/1027/06	05/1027/08	04/1027/12	-31/1027 (0005)
26	04/1090/246	21/1091/0005	-01/1091/71	-11/1091(0005)	-10/1091(001)	10/1091(001)
27	04/1086/19	10/1086(001)	-04/1086/18	-09/1086(004)	-07/1086(02)	08/1086(006)
28	-01/1088/69	01/1089/65	05/1089/09	01/1089/81	02/1089/56	03/1089/36
29	14/1086 (0005)	08/1087(007)	-01/1087/70	01/1087/70	03/1087/35	08/1087(007)
30	-06/1084/05	-21/1085(0005)	-01/1085/72	08/1085(00)	04/1085/25	-17/1035/0005
31	08/1078/002	10/1079/001	06/1079/07	01/1079/85	-04/1079/25	06/1079/06
32	05/1085/09	C1/1085/80	01/1085/94	07/1085(01)	04/1085/18	04/1085/11
33	-05/1086/09	-13/1086(0005)	05/1086/09	06/1086(04)	08/1086(004)	-08/1086(01)
34	01/1088/72	-14/1088(0005)	01/1088/63	15/1088/0005	13/1088/0005)	-02/1088/53
35	05/1081/13	-11/1081(000)	15/1081(0005)	11/1081 (0005)	-02/1081/46	06/1081(05)
36	12/1058(0005)	-23/1058(0005)	-10/1058(002)	10/1058(001)	10/1058,001)	-08/1058(01)
)))		

aSee Table 30 for footnotes a and b.



Table 57

Sample Sizes, Correlations, and Significance a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables b for the Total PMR Sample

			ABS-M	ABS-MR Levels		
Var.	1-Stereo	2-Norm	3-Moral	4-Hypo.	5-Fee1	6-Action
No.					1	
15	08/395/10	09/362/00	15/395 002	02/395/62	14/395(004)	05/395/30
16	03/396/29	02/396/71	23/396 (0003)	08/36/06	12/396(01)	90/968/60
17	05/396/59	03/396/57	-08/366/09	05/396/33	-11/396(02)	11/396/02)
18	-05/381/34	-01/381/96	-06/381/22	05/381/31	-03/381/54	10/381(04)
19	01/376/82	04/376/48	07/376/16	01/376/78	-00/376/94	03/376/51
20	-01/360/79	07/360/16	03/360/62	04/360/42	09/360/10	06/360/29
21	01/377/79	11/377	-01/377/80	05/377/30	05/377/30	17/377(001)
22	-05/376/31	-01/376/99	-03/376/62	10/376/06	02/376/71	13/376(00
23	02/380/66	-01/380/98	01/380/76	24/380(0005)	05/380/33	20/3800005
24	-09/398/07	-14/398(005)	-05/398/36	04/398/48	-01/398/89	13/398 (009)
25	-02/388/71	14/388(000	-06/388/22	12/388 @	11/388[02]	08/388/10
26	07/395/15	05/395/28	01/395/77	13/3950	09/395/07	05/395/36
27	-01/396/98	-02/396/69	16/396(00L)	01/396/90	04/396/38	08/396/13
28	11/396(03)	-03/396/58	04/396/44	03/396/09	n3/396/61	04/396/45
29	-02/397/67	-02/397/73	04/397/46	13/397	01/397/97	08/397/10
30	-11/398/03	-15/398(002)	03/398/57	01/398/90	-08/398/13	-19/398(0005)
31	-04/395/39	-04/395/47	06/395/27	07/395/17	-01/395/80	04/395/48
32	08/396/12	-01/396/98	02/396/70	06/396/20	-02/396/71	-01/396/83
33	-04/386/50	-14/386(006)	-01/386/80	06/386/28	-12/386 OD	-04/386/47
34	04/394/38	02/394/70	07/394/14	18/394(0005)	05/394/31	-01/394/94
35	07/396/16	06/396/23	05/396/37	13/396(009)	04/396/48	-01/396/96
36	-07/390/16	05/390/30	05/390/37	-02/390/74	01/390/84	-21/390(0005)

aSec Table 30 for footnotes a and b.



Table 58

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Total MAN Sample

	, I				i				G	V-	10	(C)	ı		ـما	6		_			i		ı
	6-Action	37/132/0005	22/132/009)	-33/131/9005	(\$000) 66/67	-18/101/07	14/131/11	-11/132/185	68/1320005	34/132/0005	47/132/0005	48/132/0005	-03/132/73	06/132/49	24/132(005)	36/132/0005	28/132(001)	25/132/0035	23/132/006	11/132/19	21/132(01)	14/132/11	15/131/07
	5-Fee1		45/133/0005	-09/131/32	-04/66/66	03/101/79	04/131/61	-10/132/254	19/132(03)	25/132(003)	42/133/0005	33/133/0005	-35/133(0005)	-11/133/27	43/133(0005)	40/133/0005	37/133(0005)	$31/133\sqrt{0005}$	29/133/00T5		27/133(002)	27/133(001)	19/133(/02)
ABS-MR Levels	4-Hypo.	-15/133/07	-37/1330005	-10/131/27	11/99/26	-01/101/96	03/131/77	07/132/40	20/132(02)	-03/132/75	-01/133/98	-23/133(009)	27/133K00D	27/133(002)	-22/133(01)	-04/133/67	-37/133(0005)	-23/133(008)	-04/133/60	-35/132(6005)	-13/133/12	-08/133/34	-25/132(004)
ABS-M	3-Moral	65/133 (0005)	68/133(0005)	18/131(04)	-01/99/88	06/101/54	-05/131/54	-31/132(0005)	11/132/22	18/132(04)	06/13/51	46/133/0005	-46/133 0005	-20/133/02	36/133/0005	53/133(0005)	65/133(0005)	44/133/0005	33/133(0005)	58/132(0005)	57/133(0005)	52/133(0005)	49/132(0005)
	2-Norm		35/133,0005)	-11/131/21	-16/99/12	05/101/62	-02/131/85	-16/132/06	30/132(0005)	13/132/12	39/133/0005	45/133(0005)	-24/133(005)	-05/133/53	42/133(0005)	41/133(0005)	32/133(0005)	32/133(0005)	26/133/003	31/13240005	31/133(000)	29/13X/00L	31/132(0005)
	1-Stereo	48/133/0005	41/133/0005)	-06/131/47	-04/99/72	04/101/72	-06/131/48	-21/132 @	17/132(OE)	$13/132/\overline{13}$	24/133(005)	42/133 0005	-39/133,0005	-13/133/14	50/133 0005	52/133 (000 5)	37/133,0005	31/133/0005	29/133/00D	43/13 2(0 005)	26/133(003)	31/133,0005	29/132 (00)
	Var. No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

^aSee Table 30 for footnotes a and b.



Table 59

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Total PNR^c Sample

aSee Table 30 for footnotes a and b.

 $^{\mbox{\scriptsize b}}\mbox{\scriptsize PNR=Parents}$ of Non-Retarded.



Table 60

Sample Sizes, Correlations, and Significance a Levels for the ABS-MR Attitude Levels and 22 Fredictor Variables for the Total Female Sample

No. 1-Stereo 2 No42/1446/0005 -05 15 -42/1443/0005 -05 16 -42/1443/0005 07 17 -35/1438/0005 07 18 -13/1294/0005 -14 19 11/1260/0005 01 20 09/1316/0015 -12 21 -11/1308/0005 -14 24 -21/1447/0005 -10 25 06/1442/03 07 28 -01/1437/62 -01 29 19/1440/0005 09	2-Norm 05/1446 (05) 07/1443 (008) 12/1438 (0005) 14/1294 (0005) 01/1260/63 22/1011 (0005) 17/1316 (0005)	31/1446/0005 31/1446/0005 35/1.43/0005 19/1438/0005 -03/1294/27 -03/1260/22	4-hypo. 12/1446/0005) 06/1443/03)	J-reel	0-Accion
1446/0003 1443/0005 1443/0005 1294/0005 1316/0005 1316/0005 1318/0005 1447/0005 1442/03 14437/62	5/1446 05 7/1443 008) 2/1438 0005 4/1294 0005 1/1260/63 2/1011 0005 7/1316 0005	31/1446/0005) 35/1.43/0005) 19/1438/0005) -03/1294/27	12/1446/0005) 06/1443/03)		
1443 0005 1438 0005 1294 0005 1260 0005 1316 001 1318 0005 1377 75 1447 0005 1442 03 1437 62 1437 62	7/1443 008) 2/1438 0005) 4/1294 0005) 1/1260/63 2/1011 0005) 7/1316 0005)	35/1.43 0005) 19/1438 0005) -03/1294/27 -03/1260/22	06/1443/03)	25/1446/0005)	-34/1446(0005)
	2/1438 0005 4/1294 0005 1/1260/63 2/1011 0005 7/1316 0005	19/1438/0005 -03/1294/27 -03/1260/22	100000001100	13/1443(0005)	-23/1443(0005)
	4/1294,0005 1/1260/63 2/1011,0005 7/1316,0005	-03/1294/27 -03/1260/22	U8/1438/UU2)	03/1438/19	-37/1438(0005)
	1/1260/63 2/1011(0005) 7/1316/0005)	-03/1260/22	17/1294(0005)	22/1294(0005)	-02/1292/58
	2/1011/0005) 7/1316/0005)	11011 1010 TO	$-05/1260/10^{-2}$	-03/1260/38	04/1258/17
	7/1316/0003	(COOOX1101/C7-	08/1011(01)	25/10110005	11/101100
	7,71308 000E)	-21/1316,0005	08/1316(003)	21/1316/0005	10/1314 (0005)
2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-01/1308/82	21/1308(0005)	27/1308@0005	-01/1306/64
	04/1377/19	04/1377/12	21/1377 (0005)	24/1377/0005	15/1375(0005)
	10/1447 (0005)	04/1447/18	10/1447 (0005)	11/1447 (0005)	-13/1445(0005)
000 2 000 000 000 000 000 000 000 000 0	18/1389(0005)	-20/1389/0005	01/1389/65	07/1389(01)	C100 68E1/60
(25) (600) (600)	11/1442(0005)	-01/1442/87	-01/1442/85	-08/14420002	(4/14410005)
/62 (0005)	07/1439(007)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-05/1439/06	13/1437(0005)
1440,0005	01/1437/80	06/1437/03	06/1437 (02)	03/1437/22	-01/1436/63
11, 22 /27	09/1440 00055	02/1440/38	01/1440/77	06/1440	10/143800005
17/10041	08/1433(004)	06/1433(01)	02/1433/42	07/1433(005)	-19/1431(0005)
12/1429/0005 08	08/1429(004)	06/1429(03)	00 5/1 42°/86	01/1429/84	05/1426/07
09/1440 <u>(001)</u> 02	02/1440/55	02/1440/54	02/1440/55	03/1440/19	04/1438/13
03/1415/30 -09	09/1415(001)	01/1415/96	02/1415/45	05/1415/07	02/1413/57
06/1439(03) -04	.04/1439/16	04/1439/11	09/1439(001)	12/1439(0005)	01/1437/83
06/1433 (03)	.02/1433/41	04/1433/14	11/1433(0005)	10/1433/0005	-01/1431/63
08/1404(003) -10	10/1404(0005)	-03/1404/33	07/1404(0T)	12/1404(0005)	-05/1403/07

aSee Table 30 for footnotes a and b.



Table 61

Sample Sizes, Correlations, and Significance^a Levels for the ABS-MR Attitude Levels and 22 Predictor Variables^b for the Total Male Sample

	!		ABS-M	ABS-MR Levels		
Var. No.	1-Stereo	2-Norm	3-Moral	4-Hypo.	5-Feel	6-Action
15	-40/856/0005	01/857/83	39/857/00055	12/858/001)	14/858/0005)	-31/857/0005
16	-40/857/0005>	08/858/01	44/858/0005)	07/859/03>	07/859/05)	-23/858/0005>
17	-42/854/0005)	-15/855/0005)	26/855/0005	06/856/06	-04/856/26	-44/856/0005>
18	-08/774/02	-13/773/0005	3/773/43	19/7744(0005)	13/774 (0005)	05/774/19
19	05/815/17	-01/814/859	03/814/37	01/815/93	-02/815/64	04/815/2
20	05/742/17	-24/7428005	-24/742,0005	13/742(001)	18/742/00051	117/742(001)
21	10/882/006	-15/821/0005	-19/821/00055	09/822/QD	21/822/0005	20/822,0005
22	-02/832/55	-08/831/02)	-04/831/24	19/832(0005)	26/832/6005	15/832/0005
23	13/840,0005)	-03/839/32	01/839/70	22/840/0005	26/840/6 305	21/840,0005
24	-05/858/13	-04/859/29	03/859/34	13/860(0005)	15/860/000	-04/859/20
25	09/831 Æ D	-14/831/0005)	-16/831,0005)	06/832/09	09/832/01	08/831(02)
26	08/858/02)	16/858/0005	-07/858/03	01/859/92	-05/8 59/16	14/858/0005
27	02/858/64	14/857(0005)	-01/857/71	02/858/60	-05/858/14	03/857/32
28	04/857/21	04/857/22	12/857(0005)	05/858/15	30/858/90	-05/857/14
29	22/854 (0005)	12/854(0005)	08/854(02)	000/855/60	(三 <u>)</u>	19/854/0005)
30	-05/857/17	-17/857/0005	10/857/003	04/858/23	04/858/22	-14/857 (0005)
31	08/855(02)	000/855/60	10/855/006	03/856/35	04/856/26	00/855/00
32	06/854/06	600/853	12/853/0005	11/854 002	07/854亿年)	01/853/82
33	-03/848/34	-11/847 (002)	09/847(01)	04/848/22	03/848/40	-07/348(04)
34	12/855(001)	-05/854/16	04/854/28	14/855/0005	09/855/00/2>	04/854/22
35.	12/858/0005	-01/857/80	04/857/19	12/853700D	12/858/005	03/857/37
36	12/846 (001)	-11/845(001)	04/845/29	12/846/0005	13/846(0005)	-09/845/01

^aSee Table 30 for footnotes a and **b**.



Table 62

Sample Sizes, Cornelations, and Significance^a Levels for the ABS-MR Attitude Levels and 22. Predictor Variables^b for the Total Sample

	6-Action	-32/2327 (0005)	-23/2325/0005>	-40/2316/00052	01 /2084 /80	20 /060 <i>6</i> /50	11/17/67 (80035)	14/2155(0005)	05/2154	17/2235 (0005)	-10/2318 (0005)	08/2236,0005	15/2319(0005)	10/2314 (005)	-03/2314/15	13/2309/0005>	-17/2308/0005>	C5/2302/OTS	03/2309/11	-02/2278/25	01/2310/59	-01/2308/95	-06/2268 003
	J-reel	22/2328/0005)	11/2326/0005	01/2316/53	20/2086 40005	-02/2092/32	23/1767 / 2003	22/2157 (0005)	26/2156 0005	25/2237 (0005)	13/2321/0005	08/2239/0005	-08/2321/0005	-05/2317 (01)	05/2316(03)	06/2312/002)	07/2311/002	02/2305/30	04/2312(04)	05/2280(02)	12/2313/0005	11/2311/0005	12/22.70,0005
Levels	4-Hypo.	13/2328/0005)	07/2326/00D	08/2316/0005	18/2086/0003	-01/2092/37	10/1767 (0005)	09/2157 (0535)	21/2156(0005)	22/2237(0005)	12/2321(0405)	03/2239/10	-0:/2321/62	01/2317/87	06/2316(002)	04/2312/04	03/2311(02)	02/2305/41	05/2312/02	0:/2280/07	11/2313/0005	11/2311(0005)	09/2270/0005)
ABS-MR	3-Moral	34/2327/0005>	38/2325 (0005)	23/2315/0005	-03/2085/17	-01/2091/72	-25/1767 (0005)	-20/2156/0005	-02/2155/380	03/2236/12	04/2320/03)	-18/2238,0005	-04/2320/06	-01/2316/15	09/2315/0005	05/2311/02	08/2310/0005	07/2304/0005	05/2311(01)	04/2279/04)	05/2312/01	05/2310 (02)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	2-Norm	-04/2327/09	06/2325/0015	-14/2315/0005)	14/2085(0005)	-01/2091/90	-23/1767 (0005)	-17/2156,0003	-11/2155(0005)	-04/2236,05	-08/2330(0005)	-17/2238(0005)	14/2320(0005)	10/2316(0005)	01/2315/63	10/231100005	-12/2310(0005)	08/2304/0005	04/231103	-10/2279	-04/2312/03	-02/2310/33	-11/2269(0005)
	1-Stereo	-40/2324 (0005)	-40/2322(0003)	-37/2312/0005	-11/2086(0005)	08/2092/0005	10/1767/0005	09/2157 (0005)	-07/2156(001)	05/2237/02	~15/2319/ 0 00 5)	10/2238/0005	07/232000002	02/2317/25	01/2315/61	20/2311(0005)	-04/2310/08	10/2304 (0005)	08/2312(0005)	01/2280/96	08/2313(000)	68/2311 © 00	10/2270 0005)
	Var. No.	15	<u>1</u> ,6	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

aSee Table 30 for footnotes a and b.



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Table 63

Partial and Multiple Correlations and Significance^a Levels Between the ABS-MR Attitude Levels and Selected Variables^b for the Total SER^c Sample^d

_			ABS-MF	Levels			
		1-Stereo	2-Norm	3-Moral	4-Нуро.	<u>5-Feel.</u>	6-Action
•	C .	00/7()	01/77)	0272	01(7()	07/00)	01(00)
18	HP ^C Amount	02(76)	-01(77)	-03(56)	-01(76)	-07(20)	01(90)
19	HP Avoid	17 001	-09(07)	01(94)	07(20)	01(87)	-09(08)
20	HP Income	-04 (41)	12 01	08(12)	01(79)	-04(47)	-08(13)
21	HP Alter.	-14(005)	-24 0005	01(82)	27 (0005)	10 (05)	- 05(38)
22	MR Amount	-04 (48)	-02 (75)	03(60)	-02(64)	05(32)	04(45)
23	MR Enjoyment	03(57)	07(15)	-03(62)	01(83)	-06(22)	-05(32)
	tiple R	24 005	33 (005)	10 02	34 005	14 005	17 (005
15	Efficacy-Con.	-19 0005	11 03	17 001	14 (005)	27(0005)	21 0005
17	MR Knowledge	-47 0005	04(44)	42 (0005)	$04(\overline{42})$	-36 0005	-26 0005
22	MR Amount	-02(69)	-06(26)	-02(73)	04(49)	08(12)	05(30)
23	MR Enjoyment	11 (02)	-10 04	-04(41)	03(54)	-06(21)	-08(12)
24	Age	03(21)	-03(<u>51)</u>	-08(11)	01(76)	-03 <u>(47)</u>	-05(37)
25	Educ. Amount	07(16)	- 19 (0005)	-12 01	15 (004)	15 004	- 07 <u>(14)</u>
<u>Mu 1</u>	tiple R	58 005	29 005	51 005	28 005	40 005	33,005
28	Self C hange	- 01(89)	16 002	01(91)	14 (007)	-01(88)	-04(44)
29	Child Rear.	06(20)	08(12)	01(84)	$06(\overline{25})$	07(19)	- 02(75)
30	Birth Cont.	02(72)	-09(08)	06(25)	- 01(89)	-05(31)	-16 002
31	Automation	19 (0005)	10(05)	03(56)	-09(08)	-01(81)	06(25)
32	Polit. Lead.	17 001	-10 05	-08 10	-11 02	- 05(37)	- 03(54)
33	Rule Adher.	-08(09)	-13 OD	01(91)	15 004	-04(49)	-09(06)
<u>Mul</u>	tiple R	32 (005)	29 005	12 02	28 005	10(02)	24 005

 $^{^{\}rm a}$ Significance levels in parenthesis.



 $^{^{\}mathrm{b}}_{\mathrm{See}}$ Table 6 for variable names and meaning

 $^{^{\}rm C}{\tt SER=Special\ education/rehabilitation\ personnel}$

^dN=386

Partial and Multiple Correlations and Significance Alevels Between the ABS-MR Attitude Levels and Selected Variables $^{\rm b}$ for the Total RST Sample $^{\rm c}$

Table 64

		ABS-MR	Levels			
Var. ^b No.	1-Stereo	2-Norm	3-Moral	<u>4-Hypo</u> .	5-Feel	6-Action
18. HP Amount	-12 (0005)	-01(79)	08 (007)	03(38)	-03(28)	-04(10)
19. HP Avoid	-01(80)	-01(92)	01(75)	01(65)	-04(15)	01(73)
20. HP Income	01(79)	09 (004)	04 (15)	-04(12)	-05(11)	01(71)
21. HP Alter.	-10 (00 D	-12 (0005)	-01(88)	07 (02)	08 (009)	-11 (000)
22. MR Amount	06(06)	04 (17)	-01(52)	-04(17)	-01(74)	07 (01)
23. MR Enjoyment	01(92)	03(32)	02(33)	-01(56)	06 (03)	03(28)
Multiple R	18 (605)	14 (005)	13(005)	08 005	11 (035)	13 (005)
Efficacy-Con.	-28 (.0005)	02(46)	20 (0005)	-04(23)	10 (001)	-01(88)
MR Knowledge	-22 (0005)	-23 (0005)	04(16)	03(40)	03(36)	-38 0005
22. MR Amount	02(48)	04(18)	01(79)	-03(35)	01 (87)	06 (03)
23. MR Enjoyment	10(88)	10 001	07 (01)	-01(70)	01(64)	11 (001)
24. A ge	04(14)	-15 0005	-08 (006)	04(20)	11 (0005)	-04(17)
25. Educ. Amount	-11 00D	-08 (009)	-03(24)	03 (28)	-07 (OI)	-13 0005
Multiple R	47 (005)	35 (005)	25 (005)	07 (02)	17 (005)	48 (005)
28. Self Change	-03(39)	01(69)	05(10)	01(89)	01(61)	02(49)
29. Child Rear.	08 (006)	06 (03)	-03(39)	01(89)	0 2 (43)	07 (02)
30. Birth Cont.	-04(13)	-20 (0005)	-02(46)	06 (03)	02(49)	-15 0005
Automation	07 (OL)	10 (002)	08 (OI)	-01(74)	-05(09)	02(52)
32. Polit. Lead	04(15)	01(87)	01(83)	07(01)	04(15)	05(12)
33. Rule Adher.	-04(18)	-10 002	06 (04)	04(22)	08(01)	-06(06)
Multiple R	15(005)	26 (005)	11(005)	11 (005)	11 005	19 (005)
		7			De James	

 $^{^{\}mathrm{a}}\mathrm{See}$ Table 30 for footnotes a and b.



^CRST=Regular School Reachers

^dN=1094

Table 65 $\label{eq:partial} \text{Partial and Multiple Correlations and Significance}^{a} \text{ Levels Between the ABS-MR Attitude Levels and Selected Variables}^{b} \text{ for the Total PT}^{d} \text{ Sample}$

			ABS-MI	R Levels			
Var. ^b No.		1-Stereo	2-Norm	3-Moral	4-Нуро.	5-Feel	6-Action
	P Amount	03(59)	11(03)	09 (05)	-05(30)	09(07)	06(24)
19. H	P Avoi d	01(81)	-02(74)	-02(62)	-02(72)	-01(76)	05(35)
20. H	P Income	06(22)	-01 (93)	-01(89)	05(30)	-03(51)	07(19)
21. H	P Alter.	- 03 (49)	06(18)	07(13)	-03(51)	07 (14)	-06 007
22. M	R Amount	02(74)	05(29)	-04(38)	03(53)	01(78)	14 (007)
23. M	R Enjoyment	-07(17)	-01(76)	-01(82)	08(12)	03(43)	07(13)
Multip	le R	11(02)	17 (005)	13 (005)	11 (005)	15 (005)	26 005
15. E	fficacy-Con.	07(13)	06(20)	13(01)	01(79)	09(08)	02(74)
17. Y	R Knowledge	07(18)	-01(⁷ 6)	-07(14)	02(73)	-15 003	09(06)
22. NO	R Amount	03(52)	08(09)	01(89)	01(86)	02(67)	15 (004)
23. M	R Enjoyment	-09(07)	-02(75)	-01(87)	04 (34)	05 (28)	15 004
24. A	ge	-08(11)	-14 (006)	-05(31)	04(46)	-01(73)	13 (01)
25. E	duc. Amount	-02(16)	11(02)	-04 (44)	12 (02)	13 (01)	02 (75)
Multip	le R	16(005)	22(005)	17(005)	15(005)	22(005)	28(005)
28. S	elf Change	14 (006)	01(92)	03(55)	08(12)	04(43)	03(59)
29. C	hild Rear.	-01(82)	-01(87)	03(61)	10 (05)	01(88)	08(11)
30. B	irth Cont.	-10(03)	-13 (01)	01(79)	-02(67)	-06(24)	-20 0005
31. A	utomation	-03(89)	01(89)	04 (38)	01(88)	-01(74)	03(60)
32. P	olit. Lead	01(87)	-10(03)	- 01 (92)	04(39)	- 07(14)	-01(87)
33. R	ule Adher.	01(87)	- 10 0 3	- 01 (92)	04(39)	~0 7 (14)	-01(o/)
Multip	le R	18(005)	18 (005)	08 (02)	16 (005)	11 (005)	22 (005)

aSee Table 30 for footnotes a and b



 $^{^{\}mathrm{C}}$ PMR=Parents of Mentally Retarded

 $d_{N=398}$

Table 66

Partial and Multiple Correlations and Significance Levels
Between the ABS-MR Attitude Levels and Selected
Variables for the Total M. 1. Sample

			ABS-MR	Levels			
Var.	b	1-Stereo	2-Norm	3-Moral	4-Hypo.	5-Feel	6-Action
No.							
18.	HP Amount	34 (0005)	40 (0005)	34(0005)	-[4(11)	38 0005	38 (0005)
15.	HP Avoid	-16(07)	-36(0005)	08(34)	-08(34)	-12(18)	-17 (05)
20.	HP Income	-15(08)	-18(04)	-28(001)	16(07)	-21 0D	02(80)
21.	HP Alter.	11(23)	13(14)	11(21)	03(75)	11(19)	24 (007)
2.2.	MR Amount	-06(47)	-04(64)	-04(67)	-08(38)	05(58)	-18 (03)
23.	MR Enjoyment	02(84)	15(08)	- 08 (35)	25 (004)	03(71)	56 (0005)
Mult	iple_R	45 (005)	56(005)	56(005)	32 005	48 (005)	74 005
15.	Efficacy-Con.	36 (0005)	25 (005)	53 (0005)	-09(30)	45 (0005)	40 0005
17.	MR Knowledge	-03(37)	01(93)	09 (33)	04(69)	09(29)	-03(73)
22.	MR Amount	-06(50)	-07(45)	-14(11)	02(85)	11(23)	08 (37)
23.	MR Enjoyment	04(61)	18 (04)	05(61)	25 (005)	09(29)	63 (0005)
24.	Age	05(57)	22 (01)	-04(10)	06(51)	36 0005	13 (14)
25.	Educ. Amount	25 (005)	22 (01)	34 (0005)	-23 (009)	-01(98)	10(26)
Mult	iple R	56 005	58 (005)	72 (005)	35 (005)	62 (005)	76 015
28.	Self Change	33 (0005)	25 04	04(68)	-13(15)	25 (003)	09(31)
29.	Child Rear.	29 (001)	21 (02)	23 008	22 (01)	13(13)	22 (01)
3C.	Birth Cont.	-04(68)	03(73)	36 (0005)	-22 01	05 (55)	03(70)
31.	Automation	07(37)	14(11)	18 04	-07(43)	09 (32)	06 (50)
32.	Polit. Lead	02(85)	04(63)	10(23)	04(68)	08 (37)	11(21)
33.	Rule Adher.	19 02	03 (63)	20 (02)	-20 (02)	15(09)	-02(80)
Mult	iple R	64 (005)	53 (005)	74 (005)	46 (005)	55 (005)	41 (005)

^aSee Table 30 for footnotes a and b



CMAN=Managers/Executives

 $d_{N=133}$

Partial and Multiple Correlations and Significance^a Levels
Between the ABS-MR Attitude Levels and Selected
Variables^b for the Total PNRC Sampled

			ABS-MR	Levels			
Var.	b	1-Stereo	2-Norm	3-Moral	4-Hypo.	<u>5-Feel</u>	6-Action
$\frac{\text{No.}}{18.}$	HP Amount	-01(89)	06(31)	01(86)	08(18)	-01(88)	08(18)
19.	HP Avoid	-12(04)	-05(39)	06(31)	-14(01)	09(12)	-13 (02)
20.	HP Income	01(81)	-05(38)	02(69)	-01(87)	08(17)	01(85)
21.	HP Alter.	-04(53)	13(02)	05 (35)	-10(08)	-14 (01)	09(12)
22.	MR Amount	13(02)	12 (03)	19 (001)	11 (05)	16 007	04(44)
23.	MR Enjoyment	02(72)	09(14)	01.(86)	14(01)	-05(37)	18 002
Mult	iple R	19(005)	31 (005)	35 (005)	24 (005)	26 (005)	32 (005)
15.	Efficacy-Con.	05(42)	-13(02)	22 (0005)	15(009)	40 (0005)	-43 (0005)
17.	MR Knowledge	-15 <u>(01)</u>	-12 04	-07(23)	-01(87)	11(05)	-15 (01)
22.	MR Amount	14 (01)	18 (002)	27 (0005)	08(15)	22 (0005)	13(02)
23.	MR Enjoyment	-08(16)	$-01(\overline{93})$	11 (05)	07(22 <u>)</u>	11 05	02(75)
24.	Age	18(002)	09(10)	-03 (63)	24 (0005)	05 (44)	18 (002)
25.	Educ. Amount	02(78)	21(0005)	06(29)	06(27)	- 05(<u>3</u> 7)	13 02
Mult	iple R	28 005	48 (005)	40 (005)	34 (005)	58(005)	67 (005)
28.	Self Change	03 (64)	-01(88)	16 (007)	28 0005	11 04	-09(12)
29.	Child Rear.	07(26)	20 (001)	23 (0005)	04(50)	10(08)	06(34)
30.	Birth Cont.	20(001)	12 (03)	25 0005	- 12 (04)	16 006	- 03(58)
31.	Automation	10(09)	02 (68)	-04(45)	21 (0005)	04 (49)	-01(90)
32.	Polit. Lead	08(14)	10(08)	16 (007)	13 02	15 009	- 02 (70)
33.	Rule Adher.	13(02)	20 (001)	22 (0005)	-05 <u>(38)</u>	03(58)	25 0005
Mult	iple R	. 35 005	38 (005)	51(005)	39 (005)	35 (005)	26 (005)

^aSee Table 30 for footnotes a and t



^CPNR-Parents of Non-Retarded

d_{N=300}

Table 68

Partial and Multiple Correlations and Significance^a Levels Between the ABS-MR Attitude Levels Selected Variables^b for the Total Falle Sample^c

			ABS-MR	Lev:1s			
Var. No.	Ъ	1-Stereo	2-Norm	3-Moral	<u>4-Hypo.</u>	5-Feel	6-Action
18.	HP Amount	-01(69)	-01(64)	04(12)	-01(87)	01(65)	01(64)
19.	HP Avoid	-01(5 <u>0)</u>	01(84)	07 (008)	-01(69)	07 (008)	-01(81)
20.	HP Income	08 (002)	-06 (04)	-13 (0005)	02(57)	01(63)	02 (39)
21.	HP Alter.	-06 01	-09(001)	-01(89)	07 (003)	10 (0005)	-03(21)
22.	MR Amount	09 (001)	-05(04)	-11 (0005)	-04(08)	03(25)	05 (04)
23.	MR Enjoyment	-10 (0005)	-02(52)	04(17)	12 (0005)	07 (005)	-02(25)
	iple R	19 (005)	23 (005)	25 (005)	21 (005)	31(005)	07 (02)
15.	Efficacy-Con.	-28 (0005)	01(63)	22 0005	05 (04)	23 0005	-18 (0005)
17.	MR Knowledge	21 (0005)	-08 (003)	12 (0005)	04(09)	-07 (009)	-26 0005
22.	MR Amount	05 (04)	-14 0005	- 12 (0005)	02(52)	15 0005	01(88)
23.	MR Enjoyment	- 01(78)	02(54)	02(41)	13 (0005)	11 0005	08 003
24.	A ge	-10 (0005)	-06 (02)	-05(06)	02(47)	01(90)	-08 (003)
25.	Educ. Amount	01(71)	-10 (0005)	-12 (0005)	-01(92)	03(31)	04(17)
Mult	iple R	47(005)	25 (005)	38(005)	21 (005)	36 (005)	41 (005)
28.	Self Change	-02(4 3)	01(94)	05(05)	07 (008)	02(47)	-01(91)
29.	Child Rear.	13 (0005)	07 (007)	01(77)	01(79)	05 (06)	08 004
30.	Birth Cont.	-06 G2	-08)(004)	06 (01)	01(59)	05 (03)	-18 (0005)
31.	Automation	08 002	07(01)	05(04)	-02(51)	-04(16)	01(65)
32.	Polit. Lead	06 02)	-01(83)	01(88)	01(60)	02 (30)	03(18)
33,	Rule Adher.	05(06)	-06 (02)	01(88)	01(71)	04(13)	03(20)
<u>Mult</u>	iple R	20(005)	14 (005)	11(005)	08 005	10 005	19 (005)

aSee Table 30 for footnotes a and b

 $c_{N=1450}$



Table 69

Var. b 1-Stereo 2-Norm 3-Moral 4-Hypo. 5-Feel 6-Action No. 18. IIP Amount -01(85) 09 006 02 (47) -01(73) -02(50) 09 009 19. HP Avoid 01(90) -03(26) 09 009 02(52) -06(06) -05(11) 20. HP Income 04(19) 01(80) 01(73) -06 04 -03(41) 01(78) 21. HP Alter. -09 (008) -18 (0005) -10 (003) 09 (008) 04(19) -11 (001) 22. MR Amount 11 (002) -04 (23) -10 (003) 01 (91) 08 (01) 13 (0005) 23. MR Enjoyment -03 (37) 02 (49) -01 (74) 10 (004) 18 (005) 09 (006) Whitiple R 14 (005) 27 (005) 23 (005) 20 (005) 28 (005) 25 (005) 75. Efficacy-Con20 (0005) 08 (01) 29 (0005) 06 (05) 12 (001) -10 (003) 47. MR Knowledge -28 (0005) -17 (0005) 11 (001) 02 (52) 11 (001) 09 (01)				ABS-MR	Levels			
18. IIP Amount -01(85) 09(006) 02(47) -01(73) -02(50) 09(009) 19. HP Avoid 01(90) -03(26) 09(009) 02(52) -06(06) -05(11) 20. HP Income 04(19) 01(80) 01(73) -06(04) -03(41) 01(78) 21. HP Alter09(008) -18(0005) -10(003) 09(008) 04(19) -11(001) 22. MR Amount 11(002) -04(23) -10(003) 09(008) 04(19) -11(001) 23. MR Enjoyment -03(37) 02(49) -01(74) 10(004) 18(0005) 09(006) Multiple R 14(005) 27(005) 23(005) 20(005) 28(005) 25(005) 15. Efficacy-Con20(0005) 08(01) 29(0005) 06(05) 12(001) -10(003) 17. MR Knowledge -28(0005) -17(0005) 11(001) 02(55) -10(006) -36(0005) 22. MR Amount 05(12) -13(0005) -13(0005) 02(62) 11(001) 09(01) 23. MR Enjoyment 01(80) 01(93) -02(58) 11(001) 15(0005) 16(0005) 24. Age 01(86) -04(19) -03(44) 10(005) 10(003) -05(13) 25. Educ. Amount 02(61) -05(14) -04(18) 04(29) 01(77) -04(23) Multiple R 44(005) 24(005) 42(005) 22(005) 32(005) 48(005) 28. Self Change 02(62) 05(15) 90(007) 02(49) 03(28) -06(07) 29. Child Rear. 19(0005) 13(0005) 04(19) 01(68) 02(65) -15(0005) 30. Birth Cont07(04) 19(0005) 04(19) 01(68) 02(65) -15(0005) 31. Automation 06(06) 10(005) 06(06) 01(87) -01(84) 03(43) 32. Polit. Lead 07(05) 08(01) 11(001) 09(008) 05(10) 01(89) 33. Rule Adher01(81) -06(06) 07(04) 02(60) 01(67) -03(33)	Var.	b	1-Stereo	2-Norm	3-Moral	4-Hypo.	5-Feel	6-Action
19. HP Avoid 01(90) -03(26) 09(09) 02(52) -06(06) -05(11) 20. HP Income 04(19) 01(80) 01(73) -06(04) -03(41) 01(78) 21. HP Alter09(008) -18(0005) -10(003) 09(008) 04(19) -11(001) 22. MR Amount 11(002) -04(23) -10(003) 01(91) 08(01) 13(0005) 23. MR Enjoyment -03(37) 02(49) -01(74) 10(004) 18(0005) 09(006) Multiple R 14(005) 27(005) 23(005) 20(005) 28(005) 25(005) 15. Efficacy-Con20(0005) 08(01) 29(0005) 06(05) 12(001) -10(003) 17. MR Knowledge -28(0005) -17(0005) 11(001) 02(55) -10(006) -36(0005) 22. MR Amount 05(12) -13(0005) -13(0005) 02(62) 11(001) 09(01) 23. MR Enjoyment 01(80) 01(93) -02(58) 11(001) 15(0005) 16(0005) 24. Age 01(86) -04(19) -03(44) 10(005) 10(003) -05(13) 25. Educ. Amount 02(61) -05(14) -04(18) 04(29) 01(77) -04(23) Multiple R 44(005) 24(005) 42(005) 22(005) 32(005) 48(005) 28. Self Change 02(62) 05(15) 90(007) 02(49) 03(28) -06(07) 29. Child Rear. 19(0005) 13(0005) 05(17) 07(04) 04(21) 19(0005) 30. Birth Cont07(04) 19(0005) 04(19) 01(68) 02(65) -15(0005) 31. Automation 06(06) 10(005) 06(06) 01(87) -01(84) 03(43) 32. Polit. Lead 07(05) 08(01) 11(001) 09(008) 05(10) 01(89) 33. Rule Adher01(81) -06(06) 07(04) 02(60) 01(67) -03(33)								
20. HP Income 04(19) 01(80) 01(73) -06(04) -03(41) 01(78) 21, HP Alter09(008) -18(0005) -10(003) 09(008) 04(19) -11(001) 22, MR Amount 11(002) -04(23) -10(003) 01(91) 08(01) 13(0005) 23. MR Enjoyment -03(37) 02(49) -01(74) 10(004) 18(0005) 09(006) Multiple R 14(005) 27(005) 23(005) 20(005) 28(005) 25(005) 15. Efficacy-Con20(0005) 08(01) 29(0005) 06(05) 12(001) -10(003) 17. MR Knowledge -28(0005) -17(0005) 11(001) 02(55) -10(006) -36(0005) 22. MR Amount 05(12) -13(0005) -13(0005) 02(62) 11(001) 09(01) 23. MR Enjoyment 01(80) 01(93) -02(58) 11(001) 15(0005) 16(0005) 24. Age 01(86) -04(19) -03(44) 10(005) 10(003) -05(13) 25. Educ. Amount 02(61) -05(14) -04(18) 04(29) 01(77) -04(23) Multiple R 44(005) 24(005) 42(005) 22(005) 32(005) 48(005) 28. Self Change 02(62) 05(15) 90(007) 02(49) 03(28) -06(07) 29. Child Rear. 19(0005) 13(0005) 05(17) 07(04) 04(21) 19(0005) 30. Birth Cont07(04) 19(0005) 04(19) 01(68) 02(65) -15(0005) 31. Automation 06(06) 10(005) 06(06) 01(87) -01(84) 03(43) 32. Polit. Lead 07(05) 08(01) 11(001) 09(008) 05(10) 01(89) 33. Rule Adher01(81) -06(06) 07(04) 02(60) 01(67) -03(33)	18.	HP Amount	- 01 (85)	09 (006)	02 (47)	~01(73)	-02(50)	09 (009)
21, HP Alter09 (008) -18 (0005) -10 (003) 09 (008) 04 (19) -11 (001) 22, MR Amount 11 (002) -04 (23) -10 (003) (191) 08 (01) 13 (0005) 23. MR Enjoyment -03 (37) 02 (49) -01 (74) 10 (004) 18 (0005) 09 (006) Multiple R 14 (005) 27 (005) 23 (005) 20 (005) 28 (005) 25 (005) 15. Efficacy-Con20 (0005) 08 (01) 29 (0005) 06 (05) 12 (001) -10 (003) 17. MR Knowledge -28 (0005) -17 (0005) 11 (001) 02 (55) -10 (006) -36 (0005) 12. MR Amount 05 (12) -13 (0005) -13 (0005) 02 (62) 11 (001) 09 (01) 23. MR Enjoyment 01 (80) 01 (93) -02 (58) 11 (001) 15 (0005) 16 (0005) 24. Age 01 (86) -04 (19) -03 (44) 10 (005) 10 (003) -05 (13) 25. Educ. Amount 02 (61) -05 (14) -04 (18) 04 (29) 01 (77) -04 (23) Multiple R 44 (005) 24 (005) 42 (005) 22 (005) 32 (005) 48 (005) 28. Self Change 02 (62) 05 (15) 90 (007) 02 (49) 03 (28) -06 (07) 29. Child Rear. 19 (0005) 13 (0005) 05 (17) 07 (04) 04 (21) 19 (0005) 30. Birth Cont07 (04) -19 (0005) 04 (19) 01 (68) 02 (65) -15 (0005) 31. Automation 06 (06) 10 (005) 06 (06) 01 (87) -01 (84) 03 (43) 32. Polit. Lead 07 (05) 08 (01) 11 (001) 09 (008) 05 (10) 01 (89) 33. Rule Adher01 (81) -06 (06) 07 (04) 02 (60) 01 (67) -03 (33)	19.	HP Avoid	01(90)	-03(26)	09 (009)	02(52)	-06(06)	-05(11)
21, HP Alter.	20.	HP Income	04 (19)	01(80)	01(73)	-06 (04)	-03(41)	01(78)
23. MR Enjoyment -03(37) 02(49) -01(74) 10(004) 18(005) 09(006) Multiple R 14(005) 27(005) 23(005) 20(005) 28(005) 25(005) 15. Efficacy-Con20(0005) 08(01) 29(0005) 06(05) 12(001) -10(003) 17. MR Knowledge -28(0005) -17(0005) 11(001) 02(55) -10(006) -36(0005) 22. MR Amount 05(12) -13(0005) -13(0005) 02(62) 11(001) 09(01) 23. MR Enjoyment 01(80) 01(93) -02(58) 11(001) 15(0005) 16(0005) 24. Age 01(86) -04(19) -03(44) 10(005) 10(003) -05(13) 25. Educ. Amount 02(61) -05(14) -04(18) 04(29) 01(77) -04(23) Multiple R 44(005) 24(005) 42(005) 22(005) 32(005) 48(005) 28. Self Change 02(62) 05(15) 90(007) 02(49) 03(28) -06(07) 29. Child Rear. 19(0005) 13(0005) 05(17) 07(04) 04(21) 19(0005) 30. Birth Cont07(04) 19(0005) 04(19) 01(68) 02(65) -15(0005) 31. Automation 06(06) 10(005) 06(06) 01(87) -01(84) 03(43) 32. Polit. Lead 07(05) 08(01) 11(001) 09(008) 05(10) 01(89) 33. Rule Adher01(81) -06(06) 07(04) 02(60) 01(67) -03(33)	21,	HP Alter.	-09 (008)	-18 (0005)	-10 (003)	09 (008)		-11 (001)
23. MR Enjoyment -03(37) 02(49) -01(74) 10(004) 18(0005) 09(006) Multiple R 14(005) 27(005) 23(005) 20(005) 28(005) 25(005) 15. Efficacy-Con20(0005) 08(01) 29(0005) 06(05) 12(001) -10(003) 17. MR Knowledge -28(0005) -17(0005) 11(001) 02(55) -10(006) -36(0005) 12. MR Amount 05(12) -13(0005) -13(0005) 02(62) 11(001) 09(01) 123. MR Enjoyment 01(80) 01(93) -02(58) 11(001) 15(0005) 16(0005) 124. Age 01(86) -04(19) -03(44) 10(005) 10(003) -05(13) 125. Educ. Amount 02(61) -05(14) -04(18) 04(29) 01(77) -04(23) 125. Multiple R 44(005) 24(005) 42(005) 22(005) 32(005) 48(005) 128. Self Change 02(62) 05(15) 90(007) 02(49) 03(28) -06(07) 129. Child Rear. 19(0005) 13(0005) 05(17) 07(04) 04(21) 19(0005) 30. Birth Cont07(04) 19(0005) 04(19) 01(68) 02(65) -15(0005) 31. Automation 06(06) 10(005) 06(06) 01(87) -01(84) 03(43) 32. Polit. Lead 07(05) 08(01) 11(001) 09(008) 05(10) 01(89) 33. Rule Adher01(81) -06(06) 07(04) 02(60) 01(67) -03(33)	22,	MR Amount	11 (002)	-04(23)	-10(003)	01(91)	08(01)	13 (0005)
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^aSee Table 30 for footnotes a and b.



 $c_{N=861}$

Table 70

Sample Size, Correlations, and Significance Levels^a for the ABS-MR Attitude <u>Intensity</u> Levels and <u>Amount</u> of Contact with Mentally Retarded Persons and with Handicapped Persons in General for the Total^c Sample

			Attitude Int	ensity Levels	(Variables 8-	13)
Conta Var's	ct ^b <u>1-Stereo</u>	2-Norm	3-Moral	<u>4-Hypo</u> .	<u>5-Fee1</u>	6-Action
MR	01/2156/92	-01/2155/64	01/2155/87	04/215505	18/2153 0005	06/2152 008
HP	-02/2086/38	-06/2085 01	-04/2085 05	01/2085/85	12/2083 0005	-02/2082/38

^aEach level has three entrees; the first is the correlation, the second is the sample size, and the third is the significance level.



bMR=mentally retarded, HP=handicapped person in general.

 $^{^{\}mathrm{c}}$ The book will do a complete analysis by individual samples, nation, and sex.

Table 71

Adjusted^a Means and Significance Test Results for the Six ABS-MR Levels for the Total^b Sample Across Nations

ABS-MR	1	2	7	2	ထ	Groups	28			Sex	*	Group	Sex
Levels	SER	RST	PMR	MAN	PNR	[E4	Sig.	Female Male	Male	Ŧ	Sig.	Rank	Rank
1-Stereo	41.88	41.88 41.46 34.57	34.57	33,51	33.51 36.31	86.44	5000.	.0005 37.39 37.74	37.74	976.0	.32	172787475	M V F
2-Norm	29.33	29.33 37.75 37.62	37.62	33.65	39.48	117.55	.0005	35.67	35.47	0.377	. 55	872747571	F.
3-Moral	35,32	35.32 42.03 46.81	46.81	43.12	.3,12 43,15	133,44	.0005	41.51	42.65	12.99	.0005	.0005 478757271	MOF
4-Hypo.	45,86	45.86 42.78 47.41	47.41	43.65	3,65 40,60	58.25	.0005	43.76 44.37	44.37	4.10	. 04	471757278	MVF
5-Feel	45.56	45.56 37.50 41.98	41,98	35,95	35,95 33,99	123.03	.0005	38,65 39.34	39.34	3.84	· 04	174727578	MVF
6-Action	40.64	40.64 41,31 36.77	36.77	30.34	30,34 37,99	04.69		.0005 37.19 37.63	37.63	1.54	.21	271787475	π Ţ
Level Rank	24346	5£2£6 21 4344	26366 52266 12662 6. 216564 614364 656364 655	62122	54.142 54.146								

^aEqualizes sample size and sex ratio between samples. See appendix for orginal means.

^bN=2336

Chypothesized rank: 174727578

CHAPTER 6

DISCUSSION, SUMMARY, AND TMPLICATIONS

The original research problem was to study cross-culturally the structure, content, and determinants of attitudes toward mentally retarded persons in Israel and the United States. During the course of the research it was possible to add other countries to the project such that the final research analysis was conducted on data gathered in seven nations. The original research project intended to gather data on several groups, including workers or laborers. Due to the difficulties during the Six-Day War in Israel and thereafter, it was not possible to gather data on the "laborer" group and it was dropped and other groups were added.

The research project finally concentrated primarily on four groups with other groups added in some nations. The four groups were as follows:

(a) special education rehabilitation workers--SER, (b) Regular School

Teachers--RST, (c) Parents of the Mentally Retarded--PMR, (d) Parents of the Non-Retarded--PNR, (e) and in some nations Managerial Personnel--MAN and Other Professional persons were added. The sample is presented in detail in Table 27 in Chapter 4.

NATURE OF THE PROBLEM

The overall research task was conceptualized into four problems:

(a) attitudes toward mentally retarded persons, (b) the structure of attitudes, (c) the content of attitudes, and (d) the determinants or predictors of attitudes.

Two basic views permeate the literature on attitude research: one emphasizing attitude as "predisposition to behavior" and the second emphasizing attitude as "behavior." The definitional position taken in the



present research is that of Guttman (1950, p. 51) who defines attitude as a "delimited totality of behavior with respect to something"--thus, the hyphenated term attitude-behavior. Guttman': definition is consonant with a structural or facet theory approach to the study of attitudes and behavior or attitude-behavior.

A traditional distinction made between attitude and behavior is that between the inclination to act and the action itself. The previous formulation is consistent with that distinction since attitude items are considered verbalization of behavior or actions, not the action itself. The behaviors, in turn, are hypothesized to exist at varying levels, so that the degree of favorableness toward an attitude object which is evidenced on one level is correlated in varying degrees with degrees of favorableness evidenced on other levels of behavior. Attitude, then is seen not as a single psychic position, but as a "delimited totality of behavior with respect to something." In our case, six such "delimited totalities" are the six attitude-behavior scale levels.

The facet theory approach fits within the positivistic definition developed by McGuire (1969, p. 145) and facilitates a cognitive-affective-conative (knowing, feeling and acting) analysis of the human condition.

The ABS-MR was developed such that Levels 1 and 2 deal with the cognitive component, Level 3 with the affective component (evaluation), Levels 4 and 5 deal with a combination of affective and conative components, and Level 6 deals with the conative component. Such a system facilitates an examination of the interrelationships of the cognitive-affective-conative components as well as highlighting the usefulness of the conative component as the criterion measure of attitude.

Numerous researchers have demonstrated the significance of attitude in the acceptance of disabled or handicapped persons in certain social



and educational settings. It is postulated that mental retardation, unlike physical disability is, to a large extent, a social concept, created in part by the Industrial Revolution. Increasing technological complexity as well as the progress of medical and psychological science have undoubtedly led to increased rates of retardation, both absolutely rates because of expanding population and better diagnosis and treatment as well as relative rates through identification of those who, while perhaps able to function in a simpler society, are unable to cope with the complex demands of modern society.

In spite of the recognized importance of community attitudes very little research has been directed toward uncovering factors which are instrumental in the development of attitudes toward the mentally retarded. In addition, no research was found which used a facetized design to measure and analyze attitudes toward retardation or any other category of the mentally ill or handicapped.

The review indicates, however, that most of the research studies were inconclusive or contradictory about the predictor variables and I have suggested elsewhere (Jordan, 1968) that the reason might well be attributed to the fact that the attitudes scales were composed of different levels within the Guttman paradigm.

The review further indicates that four classes of variables seems to be important determinants, correlates, and/or predictors: (a) econo-demographic variables such as age, sex, and income, (b) contact factors such as amount, nature, voluntariness, and enjoyment of the contact, (c) socio-psychological factors such as value orientation, and (d) the knowledge factor, i.e., the amount of factural information one has about the attitude object.

The "culture" variable was extensively reviewed in our previous research (Jordan, 1968) since it presents special measurement problems. Three



problems, although not unique to it, are intensified in cross-cultural research: (a) relevancy, (b) equivalency, and (c) comparability. It was accepted in this research that the concept of mental retardation was relevant to each of the research samples, especially since illiterate sectors were not used in the samples. The project director worked closely with the translators in each of the research settings to help ensure the equivalency and comparability of item meanings. Thus, concept versus index equivalence was hopefully achieved.

REVIEW OF HYPOTHESIS CONSTRUCTION

The 15 hypotheses of the study were divided into eight groups. In all but one instance the criterion or dependent variable of attitude is related to one of the predictor variables which were regarded as determinants. The eight groups were:

- 1. Relating attitudes and values
- 2. Relating attitudes and knowledge
- 3. Relating attitudes and contact
- 4. Relating attitudes and religiosity
- 5. Relating attitudes and demographic variables
- 6. Relating attitudes and change orientation
- 7. Relating attitudes and group membership
- 8. Relating attitudes and multidimensionality

Instrumentation

The instrumentation consisted of a facet theory derived six level attitude scale and a questionnaire which contained demographic, contact, knowledge, and a scale to measure the value of efficacy or man's sense of control over his environment.

The research instruments were translated into the various languages of the study, in cooperation with the author, by nationals who were both knowledgeable in the professional field of mental retardation and education.



Analysis Procedures

As indicated in a discussion of research design and analyses in Chapter 4, appropriate statistical procedures were employed which permitted testing of differences between groups, both within and across nations, while also permitting the testing of relationships between constructs such as attitude and amount of contact.

RESULTS AND IMPLICATIONS OF HYPOTHESIS TESTING

As pointed out previously, the hypotheses of the study were divided into eight groups. In Chapter 5 we presented the results of hypothesis testing with limited discussions of the implications and possible interpretation. In the remaining sections of this chapter we will attempt to go beyond the specific data and discuss the implications of the findings. The data will be discussed more exhaustively in the forthcoming book.

Relating Attitudes and Values

The hypothesis dealing with these variables was designed to test for relationships between the two constructs of attitude and value. The review of literature indicated that interpersonal values such as one's perceived control over his environment predispose persons or groups toward positive attitudes toward objects that are regarded as different. It was postulated that persons who score higher on a sense of control over their environment would not be threatened by mentally retarded persons or the concept of mental retardation; thus would score more positively on the attitude scale toward mentally retarded persons.

The data indicate that the hypothesis was essentially supported and that the value variable is one of the best predictors of positive attitudes toward the mentally retarded. This has specific implications for mental



retardation in that it suggests that people who work with retardation should be highly secure people with a sense of control over their environment.

Relating Attitudes and Knowledge

Since at least the time of the Greeks, the "pursuit of knowledge" has been idolized as producing a more enlightened and tolerant citizenry. Most of the social psychological research has also indicated that amount of education predisposes one to be more liberal and accepting of differences. Thus the hypothesis relating knowledge and attitude postulated that increased factual knowledge about mental retardation would be predictive of positive attitudes toward the retarded.

The data indicate that the hypothesis was not supported and that, in fact, a negative relationship exists between attitudes and knowledge at the more personal or action oriented attitude levels.

The six-level attitude scale consisted of at least two continua: from other to self and cognitive to affective. The first two levels, Stereotypic and Normative are both cognitive and other oriented and Levels 3-6 reflect varying degrees of affective and personal orientation. The predictor variable of knowledge tended to predict positive attitudes toward the retarded only at Levels 1 and 2 and not at the more personal and affective Levels 3-6.

Relating Attitudes and Contact

The hypotheses in this area were formulated around the assumption that increased experience with something increases one's tolerance and acceptance of that something. Specifically, in this research it was postulated that increased contact with mentally retarded persons would increase favorableness of attitude only if amount of contact per se was concurrent with perceived voluntariness of the contact and reported enjoyment of the contact.



14,

In general, the data support the hypothesis. The data indicate that amount of contact <u>per se</u> is predictive of intensity of attitude but does not predict attitude favorableness. When increased amount of contact <u>per se</u> is accompanied by perceived voluntariness and enjoyment the data indicate that attitude favorableness is more like to ensue.

Relating Attitudes and Demographic Variables

This set of data will be more fully developed in the forthcoming book.

In general, amount of education is minimally correlated with positive attitudes and age was not correlated or predictive of attitudes except in certain isolated instances.

Relating Attitudes and Change Orientation

These hypotheses were formulated on the assumption that those who were open to change in certain areas such as child rearing practices, birth control, automation, and regularized change of political leaders would be more positive in their attitudes toward such attitude objects as the mentally retarded. As a general rule the group of change orientation questions did not predict favorable attitudes toward the retarded. The two variables which seemed to work the best were positive attitudes toward new child rearing practices and toward birth control. However, these two variables were not consistently predictive of positive attitudes toward the retarded for all groups.

Relating Attitudes and Group Membership

This hypothesis was formulated on the rationale that certain groups by virtue of their involvement, experience, and contacts with the mentally retarded would be more positive toward the retarded. It was postulated that those who work with the retarded (SER) would be most positive, followed



respectively by parents of the mentally retarded, regular school teachers, managers, and parents of the non-retarded.

The postulated rank order of the groups was achieved on only one attitude level--the Actual Feeling level--but the extremes of the rank order tended to be reflected in several of the other attitude levels. A more extensive within-nation analysis of the data in the forthcoming book may reveal more fully the attitude positiveness of these groups toward the mentally retarded.

Relating Attitudes and Multidimensionality

The basic rationale for this hypothesis was built on the assumption that attitudes are multidimensional and that a facet theory derived instrument such as the ABS-MR would reflect such multidimensionality. The most important findings of this study are perhaps those in this area.

In essence, the data reveal that <u>rank order</u> on the six-level ABS-MR scale is essentially the same across groups and nations. This indicates that the relationship between the subject and attitude object is the most powerful factor influencing the structure of attitudes. The implication is that the <u>degree of positiveness or negativeness</u> of attitude is related to the content of the attitude and the cultural setting but that the <u>structure of attitudes</u> is primarily determined by the relationships between the subject and the object. This further indicates an invariant cross-cultural structure of attitudes and has important implications for cross-cultural measurement problems of comparability.

CROSS-CULTURAL ANALYSIS OF THE DATA

The data contained in this project are rich in analysis possibilities and comparatively little of it has been used in the present report. The tables in the Appendix indicate the volume of data and the intercorrelation matrices of the research groups contain other data about the relationships



between the constructs or variables. All of these data will be exhaustively analyzed in the forthcoming book.

It is also intended to do an analysis in the forthcoming book by the Guttman non-metric analyses procedures.

SUMMARY

The data from the seven-nation analysis strongly support the assertion that attitudes at the action-behavior levels have an affective-value-contactual basis rather than a cognitive-knowledge one. The research presented herein was based on five substantive questions or purposes:

- To test the simplex hypothesis concerning the object-subject relationship. Six levels of relationship were selected for research.
- To select relevant situations around which to specify the six relationships.
- 3. To test the effectiveness of selected variables as predictors of attitudes: values, contact, knowledge, demographic, and change proneness.
- 4. To ascertain the ability of the ABS-MR to differentiate between groups having different degrees of favorableness of attitudebehaviors toward the mentally retarded.
- 5. To construct a scale with units that would be semantically equivalent and comparable for cross-cultural research.

The data indicate that the five purposes were essentially achieved:

(a) that the ABS-MR attitude-behavior levels do exhibit a simplex structure, (b) that relevant object-situations were selected, (c) that selected variables are effective predictors of favorable attitude-behaviors,

(d) that the ABS-MR can differentiate between groups, and (e) that it is acceptably cross-culturally equivalent and comparable.



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In summary, the purpose of this research was to develop and substantially use a scale that would allow one to examine those aspects of attitude-behaviors that are invariant, those that are culturally determined, those that are object determined, and those that are situation determined, while at the same time examining the multivariate relationships between these components.

IMPLICATIONS

The implications of the study can be summarized as follows:

- Amount and enjoyment of contact with the mentally retarded is negatively related to attitudes on ABS-MR scale Levels 1 and 2 and positively on Levels 3-6.
- Amount of education is primarily related to ABS-MR attitudes
 on the more abstract-cognitive, and non-affective Levels 1 and 2.
- 3. Age is primarily related to ABS-MR attitudes on the more concrete and personal Levels 4-6.
- 4. Special education-rehabilitation personnel score least positively on ABS-MR Levels 1 and 2 and highest on Levels 3 and 4, while the most naive group score highest on Levels 1 and 2, and lowest on Levels 3 and 4.
- 5. Knowledge about mental retardation is related to ABS-MR attitudes on the more abstract Levels 1 and 2 and not on the behavioral Levels 3-6.
- 6. The ABS_MR scale level scores obtained for most of the groups and nations assume the following order: 1 £ 2 € 3 > 4 > 5 > 6.
- 7. The simplex was achieved for most groups and nations, indicating the power and utility of structioned or facet theory derived variables and suggests that attitude formation is largely determined



by subject-object relationships, irrespective of group membership or nationality.

The "logical" order of the six-level ABS-MR instrument intuitively seems a real breakthrough in attitude measurement and understanding. At the "practical level" we need to know: (a) what people think that others think; (b) what they think is the usual thing that society does; (c) what is the right thing to do; (d) what they, themselves, think they would do; (e) what they actually feel or have felt in a situation; and (f) what they have actually done in a situation. These are the six levels of the ADS-MR.

The real need remains to find procedures for instrumenting the predictor variables by some "ordered" means such as had been done for the attitude scale itself. The origins or determinants of attitudes intuitively seems to rest in such factors as age and education, what one knows about the attitude object, personalized value factors, and the kinds of experience and/or contact one has had with the attitude object. Further research needs to deal with the implications of attitude change as it differentially relates to each of the predictors at each of the six levels of the ABS-MR.

The attitude instrument itself needs to be shortened if possible and still maintain adequate validity and reliability. The primary implications of the present research reside in the cross-culturally invariate structure that seems to have been obtained in the attitude-behaviors. This suggests that the primary determinants of attitudes rest in the relationship between the object and the subject. The object-subject relationship is depicted by the six levels (Tables 2 & 3) or the joint struction facets. The culturally invariate object-subject relationship is in accord with Smith and Inkeles (1966, p. 377) who state...."the evidence we find of the transcultural nature of the human psyche...a unity of which we can demonstrate is increasing."



Other findings of the study which have implications for mental retardation are the relationships between attitudes, knowledge, and contact. The data indicate that increased knowledge per se about retardation does not generally lead to more positive attitudes. The data indicate that amount of experience or contact per se does also not lead to positive attitudes but that if one "enjoys" the contact, positive attitudes are more likely to ensue. This has specific implications for mental retardation: if one wants to help people to be positive toward the retarded, he should attempt to help them enjoy their contact, especially the first ones.

A last implication of the research is the place of the value structure or personality of the person interacting with the retarded. Apparently those who feel safe and secure (efficacy) in their environment also feel positive toward the retarded. One can project that as one feels secure, he is not threatened by retardation. This would suggest that people who work with the retarded should be highly secure people and contains implications for training or selection procedures for universities or institutions training personnel to work with the mentally retarded.



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GLOSSARY

GLOSSARY

- Approximation -- see "simplex approximation."
- Attitude -- "Delimited totality of behavior with respect to something" (Guttman, 1950, p. 51).
- Joint struction—see also "struction," "lateral struction"—

 "operationally defined as the ordered sets of . . . five facets from lew to high across all five facets simultaneously" (Jordan, 1968, p. 76); that part of the semantic structure of attitude items which can be determined independently of specific response situations.
- Content--situation (action, feeling, comparison, circumstances) indicated in an attitude item; generally corresponds to "lateral struction."
- Definitional statement-specification of characteristics proper to an item of a given level member, typically stated in phrase or clause form.
- Definitional system--ordered group of definitional statements or of the corresponding level members; typically either the group constituting a "semantic path" or the complete group of 12 level members in the "semantic map."
- Directionality--characteristic of an item, sometimes called positive or negative, determining agreement with the item as indicating favorable-ness or unfavorableness toward the attitude object.
- Lateral struction—see also "struction," "joint struction"——that part of
 the semantic structure of attitude items which is directly dependent on
 specification of situation and object; a more precise term than "content."
- Element—one of two or more ways in which a facet may be expressed; in the present system, all joint facets are dichotomous, expressed in one of two ordered elements.

ERIC ¹Credit is given to Maierle (1969) for most of the work in developing this glossary. 150

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Facet--one of several semantic units distinguishable in the verbal expression of an attitude; in the present system, five dichotomous facets are noted within the joint struction.

Facet profile -- see "struction profile."

Level—degree of attitude strength specified by the number of strong and weak facets in the member(s) of that level; in the present system, six ordered levels are identified: level 1 is characterized by the unique member having five weak facets; level 2, by members having four weak and one strong facet . . . level 6, by the unique member having five strong facets.

Level member—one of one or more permutations(s) of strong and weak facets which are common to a given level; in the present system, 12 level members have been identified: three on level 2 four on level 3, two on level 4, and one each on levels 1, 5, and 6.

Map-see "semantic map."

Member--see "level member."

Path--see "semantic path."

Profile--see "struction profile."

Reversal—change in a specified order of levels or of correlations, involving only the two indicated levels or correlations.

Semantic -- pertaining to or arising from the varying meanings, grammatical forms, or stylistic emphasis of words, phrases, or clauses.

Semantic map—two-dimensional representation of hypothesized relationships among six levels and among 12 level members.

Semantic path—ordered set of level members, typically six, such that each member has one more strong facet than the immediately preceding member and one less strong facet than the immediately following member.



- Semantic possibility analysis--linguistic discussion of the implications of the five dichotomous joint facets identified in the present system; of 32 permutations, only 12 are considered logically consistent.
- Simplex---specific form of (correlation) matrix, diagonally dominated and decreasing in magnitude away from the main diagonal; see Tables 8 & 9 for comparison of equally spaced and unequally-spaced diagonals.
- Simplex approximation—matrix which approaches more or less perfectly the simplex form; existing tests (Kaiser, 1962; Mukherjee, 1966) reflect both ordering of individual entries and sizes of differences between entries and between diagonals.
- Strong(er)—opposite of weak(er)—term functionally assigned to one of two elements, to a facet expressed by its strong element, or to a level member characterized by more strong facets than another level member; the strong weak continuum is presently examined as undimensional.
- Struction—see also "joint struction," "lateral struction"--semantic pattern identifiable in any attitude item, or the system of such identifications.
- Struction profile—specification, typically indicated by small letters and numerical subscripts, of the permutation(s) of weak and strong elements or facets in a level member or a set of level members; or of permutations of lateral elements or facets.
- Transposition—change in a specified order of levels or of correlations involving a change in position of one level or correlation and the corresponding one-place shift in the position of following or preceding levels or correlations.
- Weak--opposite of "strong" (which see).



APPENDIX A.2

Facet Theory Tables A.19-26



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Five-facet Six-Level System of Attitude Verbalizations: Twelve Hypothesized Level Members: Definitional Statements and Descriptive Names

Level		s 2 0 q 0		
-	Societal (Gr. Ass	al bl cl dl ell tal stereotype Ass. Gr. Status)		
1 b o c s a ₂ b ₁ c ₁ d ₁ e ₁ Personally-assigned group status	c s la	o b o i s a b c d e e e e e e e e e e e e e e e e e e	o b i c s a b c d e c droup-assigned personal status	i c s c ₂ d ₁ e ed personal
1 b o 1 s a b c 1 d e 1	1 b 1 c s a b c d e 1	9 8 1	b 1 1 s b 2 d e	0 a 0 i s a ₁ b ₂ c ₁ d ₂ e ₁
3 Personal moral evaluation (Perceived values)	Self-concept (ass. personal	(s	med laws expectati	Group identity (Actual group feelings)
	1 b 1 1 s a ₂ b ₁ c ₂ d ₂ e	0 8 1	a o i p 1 b c d e 2	
. 4	Personal hypothetical action	Actual	up behav:	
		4 T E		
ın ِ	Fers	Fersonal feeling		
νο.	Pers	1 a 1 1 p a ₂ b ₂ c ₂ d ₂ e ₂ Personal action	. 	

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Table A.20

	Sema n tic Path	'A" for a Five-Facet	Attitude Universe
Level	Profile by def. state.	Profile by facet change	Descriptive name
	ABCDE	EBCDA	
1	obocs	s b o c o/	Societal stereotype
2	ibocs	s b o c/i	Personally-assigned group status
3	ibois	s b o/i i	Personal moral evaluation
4	i b i i s	s b/ i i i	Personal hypothetical action
5	iaiis	s/a i i i	Personal feeling
6	iaiip	paiii	Personal action

Table A.21

Semantic Path "B" for a Five-Facet Attitude Universe

Level	Profile by def. state.	Profile by facet change	Descriptive name
	ABCDE	EBDCA	
1	obocs	8 b c o o/	Societal stereotype
2	ibocs	s b c o/i	Personally-assigned group status
3	ibics	s b c/i i	Self concept
4	ibiis	s b/i i i	Personal hypothetical action.
5	iaiis	s/a i i i	Personal feeling
6	iaiip	/paiii	Personal action



Table A.22

Semantic Path "C" for a Five-Facet Attitude Universe^a

Level	Profile by def. state.	Profile by facet change	Descriptive name
	ABCDE	E B C A D	
1	obocs	s b o o c	Societal stereotype
2	obois	s b o o/i	Societal norm
3	i b o i s	s b o/i i	Personal moral evaluation
4	i b i i s	s b/i i i	Personal hypothetical action
5	i a i i s	s/a i i i	Personal feeling
6	iaiip	paiii	Personal action

The set of permutations comprised in this semantic path are those according to which the ABS-MR scale was constructed. Table 4 presents the same set of permutations, with each facet assigned a subscript 1 (weak element) or 2 (strong element).

Table A.23

Semantic Path 'D" for a Five-Facet Attitude Universe

.evel	Profile by def. state.	Profile by facet change	Descriptive name
·	ABCDE	EBACD	
1	obocs	sbooc	Societal stereotype
2	obois	s b o o A	Societal norm
3	obiis	sbolii	Proclaimed laws
4	ibiis	s b/i i i	Personal hypothetical action
5	iaiis	s/a i i i	Personal feeling
6	iaiip	paiii	Personal action



Table A.24

Semantic Path "E" for a Five-Facet Attitude Universe

Level	Profile by def, state,	Profile by facet change	Descriptive name
	ABCDE	E B D A C	
1	o b o c s	sbcoo	Societal stereotype
2	obics	sbco/i	Group-assigned personal status
3	ibics	s b c/i i	Self concept
4	i b i i s	s b/i i i	Personal hypothetical action
5	iaiis	s a i i i	Personal feeling
6	iaiip	paiii	Personal action

Table A.25

Semantic Path 'F" for a Five-Facet Attitude Universe

Level	Frofile by def, state,	Profile by facet change	Descriptive name
	ABCDE	E B A D C	
1	obocs	s b o c o	Societal stereotype
2	o b i c s	s b o c/i	Group-assigned personal status
3	obiis	s b o/i i	Proclaimed laws
4	ibiis	s b/i i i	Personal hypothetical action
5	i a i i s	s/aiii	Personal feeling
6	iaiip	paiii	Personal action



Table A.26

Semantic Path "G" for a Five-facet Attitude Universe Level Profile by Profile by Descriptive name def. state. facet change ABCDE E B D (A) (C) 1 s b c/(o) obocs(0) Societal stereotype 2 obois **(**0) Societal norm 3 a i (o) Group identity (group feelings) oaois pai (o) 4 oaoip Group behavior



APPENDIX A.3

Attitude Behavior Scale-Mental Retardation ABS-MR



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MR-ANS: U.S.

ATTITUDE BEHAVIOR SCALE -- MR

DIRECTIONS

This booklet contains statments of how people feel about certain things. In this section you are asked to indicate for each of these statements how most other people believe that mentally retarded people compare to people who are not retarded. Here is a sample statment.

Sample 1.

- 1. Chance of being blue-eyed
 - 1) less chance
 - 2. about the same
 - 3. more chance

If other people believe that mentally retarded people have <u>less</u> chance than most people to have blue eyes, you should <u>circle the number 1</u> as shown above.

If other people believe the mentally retarded have more chance to have blue eyes, you should circle the number 3 as shown below.

- 1. Chance of being blue-eyed
 - 1. less chance
 - 2. about the same
 - (3) more chance

After each statement there will also be a question asking you to state how certain or sure you were of your answer. Suppose you answered the sample question about "blue eyes" by marking about the same.

Next you should then indicate how sure you were of this answer. If you felt sure of this answer, you should circle the number 3 as shown below in Sample 2.

Sample 2.

- 1. Chance of being blue-eyed
 - 1. less chance
 2 about the same

- 2. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 🔾 sure

by: John E. Jordan College of Education Michigan State University



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ABS-I-MR

Directions: Sect 1

In the statements that follow you are to circle the number that indicates how other people compare mentally retarded persons to those who are not mentally retarded, and then to state how sure you felt about your answer. Usually people are sure of their answers to some questions, and not sure of their answers to other questions. It is important to answer all questions, even though you may have to guess at the answers to some of them.

Other people generally believe the following things about the mentally retarded as compared to those who are not retarded:

Energy and vitality

- 1. less energetic 2. about the same
- 3. more energetic
- 3. Ability to do school work
 - 1. less ability
 - 2. about the same
 - 3. more ability
- 5. Memory
 - 1. not as good
 - 2. same
 - 3. better

- 2. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - sure
- 4. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 6. How sure are you of this answer?
 - not sure
 - 2. fairly sure
 - 3. sure
- 7. Interested in unusual sex practices 8. How sure are you of this answer?
 - 1. more interested
 - 2. about the same
 - 3. less interested

- 1. not sure
- 2. fairly sure
- 3. sure
- 9. Can maintain a good marriage

 - 1. less able
 - 2. about the same
 - more able

- 10. How sure are you of this answer?
 - not sure
 - 2. fairly sure
 - sure
- 11. Will have too many children

 - 1. more than most 2. about the same

 - 3. less than most

- 12. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



ABS-I-MR

Other people generally believe the following things about the mentally retarded as compared to those who are not mentally retarded:

- 13. Faithful to spouse
 - 1. less faithful
 - 2. about the same
 - 3. more faithful
- 15. Will take care of his children
 - 1. less than most
 - 2. about the same
 - 3. better than most
- 17. Likely to obey the law
 - 1. less likely
 - 2. about the same
 - 3. more likely
- 19. Does steady and dependable work 20. How sure are you of this answer?
 - 1. less likely
 - 2, about the same
 - 3, more likely
- 21. Works hard
 - 1. not as much
 - 2. about the same
 - 3. more than most
- 23. Makes plans for the future
 - 1. not as likely
 - 2. about the same
 - 3. more likely
- 25. Prefers to have fun now rather than to work for the future
 - 1. more so than most people
 - 2. about the same
 - 3. less so than most people

- 14. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 16. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 18. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- - 1. not sure
 - 2. fairly sure
 - 3. sure
- 22. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 24. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 26. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



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ABS-I-MR

Other people generally believe the following things about the mentally retarded as compared to those who are not retarded:

- 27. Likely to be cruel to others
 - 1. more likely
 - 2. about the same
 - 3. less likely
- 29. Mentally retarded are sexually
 - 1. more loose than others
 - 2. about the same
 - 3. less loose than others
- 31. Amount of initiative
 - 1. less than others
 - 2. about the same
 - 3. more than others
- 33. Financial self-support
 - 1, less able than others
 - 2. about the same
 - 3. more able than others
- 35. Mentally retarded prefer
 - 1. to be by themselves
 - 2. to be only with normal people
 - 3. to be with all people equally
- 37. Compared to others, education of the mentally retarded
 - 1. is not very important
 - 2. is of uncertain importance
 - 3. is an important social goal
- 39. Strictness of rules for mentally retarded
 - 1. must be more strict
 - 2. about the same
 - 3. need less strict rules

- 28. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 30. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 32. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 34. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 36. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 38. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 40. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



ABS-II-MR

Directions: Section II

This section contains statements of ways in which other people sometimes act toward people. You are asked to indicate for each of these statements what other people generally believe about interacting with the mentally retarded in such ways. You should then indicate how sure you feel about your answer.

Other people generally believe that mentally retarded persons ought:

- 41. To play on the school playground 42. How sure are you of this answer? with other children who are not mentally retarded
 - usually not approved
 - 2. undecided
 - 3. usually approved

- 1. not sure
- 2. fairly sure
- 3. sure
- 43. To visit in the homes of other children who are not mentally
 - retarded
 - 1. usually not approved 2. usually undecided

 - 3. usually approved

- 1. not sure
- 2. fairly sure
- 3. sure
- 45. To go on camping trips with other 46. How sure are you of this answer? children who are not mentally retarded
 - 1. usually not approved
 - 2. undecided
 - 3. usually approved

- 1. not sure
- 2. fairly sure
- 3. sure
- tasks since they can learn very little
 - 1. usually believed
 - 2. undecided
 - 3. not usually believed
- 47. To be provided with simple 48. How sure are you of this answer?

44. How sure are you of this answer?

- 1. not sure
- 2. fairly sure
- 3. sure
- of children who are not mentally retarded
- 49. To stay overnight at the homes 50. How sure are you of this answer?
 - usually not approved
 - 2. undecided
 - 3. usually approved

- 1. not sure
- 2. fairly sure
- 3. sure



ABS-II-MR

Other people generally believe that mentally retarded persons ought:

- 51. To go to parties with other children who are not mentally retarded
- 52. How sure are you of this answer?

54. How sure are you of this answer?

- 1. usually not approved
- 2. undecided
- 3. usually approved

- 1. not sure
- 2. fairly sure
- 3. sure
- 53. To be hired for a job only if there are no qualified non-mentally retarded people seeking the job

 - 1. usually approved
 - 2. undecided
 - 3. usually not approved

- 1. not sure
- 2. fairly sure
- 3. sure
- 55. To live in the same neighborhood with people who are not mentally retarded
- 56. How sure are you of this answer?
- 1. usually not approved
- 2. undecided
- 3. usually approved

- 1. not sure
- 2. fairly sure
- 3. sure
- 57. To date a person who is not mentally retarded

 - 1. usually not approved 2. undecided
 - 3. usually approved

- 58. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- who is not mentally retarded

 - 1. usually not approved
 - 2. undecided
 - 3. usually approved
- 59. To go to the movies with someone 60. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 61. To marry a person who is not mentally retarded

 - 1. usually not approved 2. undecided
 - 3. usually approved

- 62. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure

- 63. To be sterilized (males)
 - 1. usually approved 2. undecided
 - 3. usually not approved
- 64. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



ABS-II-MR

Other people generally believe that mentally retarded persons ought:

- 65. To be sterilized (females)
 - 1. usually approved
 - 2. not sure
 - 3. usually not approved
- 67. To be desirable as friends
 - 1. not usually approved
 - 2. not sure
 - 3. usually approved
- 69. To be regarded as having sex appeal
 - 1. not usually so
 - 2. not sure
 - 3. usually so
- 71. To be regarded as dangerous
 - 1. usually so regarded
 - 2. not sure
 - 3. notusually regarded so
- 73. To run machines that drill holes in objects
 - 1. usually not approved
 - 2. not sure
 - 3. usually approved
- 75. To be trusted with money for personal expenses
 - 1. not usually so
 - 2. not sure
 - 3. usually so
- 77. To work at jobs he can do even if he has almost no speech
 - 1. not usually so
 - 2. not sure
 - 3. usually so
- 79. To be forced to totally provide for themselves
 - 1. usual
 - 2. not sure
- 3. not usual 3968

- 66. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 68. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 70. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 72. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 74. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 76. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 78. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 80. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



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ABS-III-MR

Directions: Section III

This section contains statments of the "right" or "moral" way of acting toward people. You are asked to indicate whether you yourself agree or disagree with each statement according to how you personally believe you ought to behave toward mentally retarded persons. You should then indicate how sure you feel about your answer.

In respect to people who are mentally retarded, do you believe that it is usually right or usually wrong:

- 81. To take a mentally retarded child on a camping trips with normal children
- 82. How sure are you of this answer?

84. How sure are you of this answer?

- 1. usually wrong
- 2. undecided
- 3. usually right

- 1. not sure
- 2. fairly sure
- 3. sure
- 83. To permit a mentally retarded child to go to the movies with children who are not mentally retarded
 - 1. usually wrong
 - 2. undecided
 - 3. usually right

- - not sure
 fairly sure
 - 3. sure
- 85. To allow a mentally retarded child to visit overnight with a child who is not mentally retarded
 - 1. usually wrong
 - 2. undecided
 - 3. usually right

- 86. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 87. To take a mentally retarded child to a party with

children who are not mentally retarded

- 1. usually wrong
- 2. undecided
- 3. usually right

- 88. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 89. For the government to pay part of the cost of elementary education for mentally retarded children
- 90. How sure are you of this answer?

- 1. usually wrong
- 2. undecided
- 3. usually right

- 1. not sure
- 2. fairly sure
- 3. sure

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ABS-III-MR

In respect to people who are mentally retarded, do you believe that it is usually right or usually wrong:

- 91. For the government to pay the <u>full</u> 92. How sure are you of this answer? cost of elementary education for mentally retarded children
 - 1. usually wrong
 - 2, undecided
 - 3, usually right

- 1. not sure
- 2. fairly sure

94. How sure are you of this answer?

96. How sure are you of this answer?

98. How sure are you of this answer?

- 3. sure
- 93. For the government to pay the <u>full</u> cost of a high school education for mentally retarded children
 - 1. usually wrong
 - 2. undecided
 - 3. usually right

- 1. not sure
 - 2. fairly sure
 - 3, sure
- 95. For the government to pay part of the medical costs related to the disability
 - 1. usually wrong
 - 2. undecided
 - 3. usually right

- 1. not sure
- 2. fairly sure
- 3. sure
- 97. For the government to pay all of the medical costs related to the disability
 - 1. usually wrong
 - 2. undecided
 - 3. usually right

- - not sure
 fairly sure
 - 3. sure
- 99. To be given money for food and clothing by the government
 - 1. usually wrong
 - 2. undecided
 - 3. usually right

- 100. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 101. To mix freely with people who are not mentally retarded at parties
 - 1. usually wrong
 - 2. undecided
 - 3. usually right

- 102. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



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ABS-III-MR

In respect to people who are mentally retarded, do you believe that it is usually right or usually wrong:

- 103. To go on dates with someone who is not mentally retarded

 - usually wrong
 undecided
 - 2. undection
 - 3. usually right
- 105. To go to the movies with someone who is not mentally retarded
 - 1. usually wrong
 - 2. undecided
 - 3. usually right
- 107. To marry someone who is not mentally retarded
 - 1. usually wrong
 - 2. undecided
 - 3. usually right
- 109. To be a soldier in the army
 - 1. usually wrong
 - 2. undecided
 - 3. usually right
- 111. To provide special laws for their protection
 - 1. usually wrong
 - 2. undecided
 - 3. usually right
- 113. To provide special help to get around the city
 - 1. usually wrong
 - 2. not sure
 - 3. usually right
- 115. To sterilize the mentally retarded
 - 1. usually right
 - 2. not sure
 - 3. usually wrong

- 104. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 106. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 108. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 110. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 112. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 114. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 116. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



ABS-III-MR

In respect to people who are mentally retarded, do you believe that it is usually right or usually wrong:

- 117. To put all mentally retarded in separate classes, away from normal children
 - 1. usually right
 - 2. not sure
 - 3. usually wrong

- 118. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 119. To reserve certain jobs for the 120. Now sure are you of this answer? mentally retarded
 - 1. usually wrong
 - 2. not sure
 - 3. usually right

- - 1. not sure
 - 2. fairly sure
 - 3. sure

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ABS-IV-MR

Directions: Section IV

This section contains statments of ways in which people sometimes act toward other people. You are asked to indicate for each of these statments whether you personally would act toward mentally retarded people according to the statment. You should then indicate how sure you feel about this answer.

In respect to a mentally retarded person, would you:

- 121. Share a seat on a train for a long trip
 - 1. no
 - 2. don't know
 - 3. yes
- 123. Have such a person as a fellow worker
 - 1. no
 - 2. don't know
 - 3. yes
- 125. Have such a person working for you
 - 1. no
 - 2. don't know
 - 3. yes
- 127. Live in the next-door house or apartment
 - 1. no
 - 2. don't know
 - 3. yes
- 129. Extend an invitation to a party at your house
 - 1. no
 - 2. don't know
 - 3. yes
- 131. Accept a dinner invitation at his house
 - 1. no
 - 2. don't know
 - 3. yes

- 122. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 124. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 126. How sure are you of this answer?
 - 1. Lot sure
 - 2. fairly sure
 - 3. sure
 - 128. How sure are you of this answer?
 - 1. not sure
 - 2. faitly sure
 - 3. sure
 - 130. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
 - 132. How sure are you of this answer?
 - 1. not sure
 - ?. fairly sure
 - 3. sure

ABS-IV-MR

In respect to a mentally retarded person, would you:

- 133. Go to the movies together

 - 2. don't know
 - 3. yes
- 135 Go together on a date
 - 1. no
 - 2. don't know
 - 3. yes
- 137. Permit a son or daughter to date this person
 - 1. no
 - 2. don't know
 - 3. yes
- 139. Permit a son or daughter to marry this person
 - 1. no
 - 2. don't know
 - 3. yes
- 141. Feel sexually comfortable together
 - 1. no
 - 2. don't know
 - 3. yes
- 143. Enjoy working with the mentally revarded
 - 1. no
 - 2. don't know
 - 3. yes
- 145. Enjoy working with the mentally retarded as much as other handicapped
 - 1. no
 - 2. don't know
 - 3. yes
- 147. Enjoy working with mentally retarded who also have emotional problems
 - 1. no

 - 3. yes
 - 2. don't know

- 134. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 136. How sure are you of this answer?
 - 1. not sure
 - 2, fairly sure
 - 3. sure
- 138. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 140. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 142. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 144. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 146. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 148. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



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ABS-IV-MR

- In respect to a mentally retarded person, would you:
- 149. Hire the mentally retarded if you were an employer
 - 1. no
 - 2. don' know
 - 3. yes
- 151. Want the mentally retarded in your class if you were a teacher
 - 1. no
 - 2. dor't know
 - 3. yes
- 153. Require the mentally retarded to be sterilized if you were in control
 - 1. yes
 - 2. don't know
 - 3. no
- 155. Separate the mentally retarded from the rest of society if you were in control
 - 1. yes
 - 2. don't know
 - 3. no
- 157. Believe that the care of the mentally retarded is an evidence of national social development
 - 1. no
 - 2. don't know
 - 3. yes
- 159. Provide, if you could, special classes for the mentally retarded in regular school
 - 1. no
 - 2. don't know
 - 3. yes

- 150. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 152. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 154. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 156. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 158. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 160. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



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ABS-V-MR

Directions: Section V

This section contains statements of actual feelings that people may hold toward the mentally retarded. You are asked to indicate how you feel toward people who are mentally retarded compared to people who are not mentally retarded. You should then indicate how sure you feel of your answer.

How do you actually feel toward persons who are mentally retarded compared to others who are not mentally retarded:

- 1. Disliking
 - 1. more
 - 2. about the same
 - 3. less
- 3. Fearful
 - 1. more
 - 2. about the same
 - 3. less
- 5. Horrified
 - 1. more
 - 2. about the same
 - 3. leas
- 7. Loathing
 - 1. more
 - 2. about the same
 - 3. less
- 9. Dismay
 - 1. more
 - 2. about the same
 - 3. less
- 11. Hating
 - 1. more
 - 2. about the same
 - 3. less
- 13. Revulsion
 - 1. more
 - 2. about the same
 - 3. less

- 2. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 4. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 6. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 8. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 10. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 12. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 14. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure

ABS-V-MR

How do <u>voit actually feel</u> toward persons who are mentally retarded compared to others who are not mentally retarded:

- 15. Contemptful
 - 1, more
 - 2. about the same
 - 3. less
- 17. Distaste
 - 1. more
 - 2. about the same
 - 3. less
- 19. Sickened
 - 1. more
 - 2. about the same
 - 3. less
- 21. Confused
 - 1. more
 - 2. about the same
 - 3. less
- 23. Negative
 - 1. more
 - 2. about the same
 - 3. less
- 25. At ease
 - 1. less
 - 2. about the same
 - 3. more
- 27. Restless
 - 1. more
 - 2. about the same
 - 3. less
- 29. Uncomfortable
 - 1. more
 - 2. about the same
 - 3. less

- 16. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 18. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 20. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 22. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. gure
- 24. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 2t. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 28. How sure are you of this answer?
 - 1, not sure
 - 2. fairly sure
 - 3. sure
- 30. How sure are you of this answer?
 - 1. not mure
 - 2. fairly sure
 - 3. sure



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ABS-V-MR

How do you actually feel toward persons who are mentally retarded compared to others who are not mentally retarded:

- 31. Relaxed
 - 1. less
 - 2. about the same
 - 3. more
- 33. Tense
 - 1. more
 - 2. about the same
 - 3. less
- 35. Bad
 - 1. more
 - 2. about the same
 - 3. less
- 37. Calm
 - 1. less
 - 2. about the same
 - 3. more
- 39. Happy
 - 1. less
 - 2. about the same
 - 3. more

- 32. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 34. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 36. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - sure
- 38. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure
- 40. How sure are you of this answer?
 - 1. not sure
 - 2. fairly sure
 - 3. sure



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ABS-VI-MR

Directions: Section VI

This section contains statements of different kinds of actual experiences you have had with mentally retarded persons. If the statment applies to you, circle yes. If not, you should circle no.

Experiences or contacts with the mentally retarded:

- 41. Shared a seat on a bus, train, or plane
 - 1. no
 - 2. uncertain
 - 3. yes
- 43. Eaten at the same table together in a restaurant

 - 1. no
 - 2. uncertain
 - 3. yes
- 45. Lived in the same neighborhood
 - 1. no
 - 2. uncertain
 - 3. yes
- 47. Worked in the same place
 - 1. no
 - 2. uncertain
 - 3. yes
- 49. Had such a person as my boss or employer
 - 1. no
 - 2. uncertain
 - 3. yes
- 51. Worked to help such people without being paid for it
 - 1. no
 - 2. uncertain
 - 3. yes
- 53. Have acquaintance like this
- - . no
 - uncertain

- 42. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 44. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 46. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 48. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 50. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 52. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 54. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between

183



3. yes

MR-ANS: U.S.

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ABS-VI-MR

Experiences or contacts with the mentally retarded:

- 55. Have good friends like this
 - 1. no
 - 2. uncertain
 - 3. yes
- 57. Donated money, clothes, etc., for people like this
 - 1. no
 - 2. uncertain
 - 3. yes
- 59. Have a husband (or wife) like this
 - 1. no
 - 2. uncertain
 - 3. yes
- 61. I am like this, myself
 - 1. no
 - 2. uncertain
 - 3. yes
- 63. My best friend is like this
 - 1. no
 - 2. uncertain
 - 3. yes
- 65. Received pay for working with people like this
 - 1. yes
 - 2. no
- 67. My children have played with children like this
 - 1. no
 - 2. uncertain
 - 3. yes

- 56. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 58. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 60. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 62. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 64. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 66. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 68. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant



ABS-VI-MR

Experiences or contacts with the mentally retarded:

- 69. My children have attended school with children like this
 - 1. no
 - 2. uncertain
 - 3. yes
- 71. Voted for extra taxes for their education
 - 1. no
 - 2, not certain
 - 3. yes
- 73. Worked to get jobs for them
 - 1. no
 - 2. not certain
 - 3. yes
- 75. Have you sexually enjoyed such people
 - 1. no
 - 2. no answer
 - 3. yes
- 77. Studied about such people
 - 1. no
 - 2. yes
- 79. Have worked as a teacher with such people
 - 1. no
 - 2. yes

- 70. Has this experience been mostly pleasant or unpleasant?
 - 1, no such experience
 - 2. unpleasant
 - 3. in between
 - 4, pleasant
- 72. has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 74. Has this experience been pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 76. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 78. Has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3. in between
 - 4. pleasant
- 80. has this experience been mostly pleasant or unpleasant?
 - 1. no such experience
 - 2. unpleasant
 - 3, in between
 - 4. pleasant

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This part of the booklet deals with many things. For the purpose of this study, the answers of all persons are important.

Part of the questionnaire has to do with personal information about you.

Since the <u>questionnaire is completely anonymous or confidential</u>, you may answer all of the questions freely without any concern about being identified. It is important to the study to obtain your answer to every question.

Please read each question carefully and do not omit any questions. Please answer by circling the answer you choose.

- 81. Please indicate your sex.
 - 1. Female
 - 2. Male
- 82. Please indicate your age as follows:
 - 1. Under 20 years of age
 - 2. 21-30
 - 3. 31-40
 - 4. 41-50
 - 5. 50 over
- 83. Below are listed several different kinds of schools or educational divisions. In respect to these various kinds or levels of education, which one have you had the most professional or work experience with, or do you have the most knowledge about? This does not refer to your own education, but to your professional work or related experiences with education.
 - 1. I have had no such experience
 - 2. Elementary school (Grade school)
 - 3. Secondary school (High school)
 - 4. College or University
 - 5. Other types



- 84. What is your marital status?
 - 1. Married
 - 2. Single
 - 3. Divorced
 - 4. Widowed
 - 5. Separated
- 85. What is your religion?
 - 1. I prefer not to answer
 - 2. Catholic
 - 3. Protestant
 - 4. Jewish
 - 5. Other or none
- 86. About how important is your religion to you in your daily life?
 - 1. I prefer not to answer
 - 2. I have no religion
 - 3. Not very important
 - 4. Fairly important
 - 5. Very important
- 87. About how much education do you have?
 - 1. 6 years of school or less
 - 2. 9 years of school or less
 - 3. 12 years of school or less
 - 4. Some college or university
 - 5. A college or university degree
- 88. Some people are more set in their ways than others. How would you rate yourself?
 - 1. I find it very difficult to change
 - 2. I find it slightly difficult to change
 - 3. I find it somewhat easy to change
 - 4. I find it very easy to change my ways



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89. Some people feel that in bringing up children, new ways and methods should be tried whenever possible. Others feel that trying out new methods is dangerous. What is your feeling about the following statement?

"New methods of raising children should be tried out whenever possible."

- 1. Strongly disagree
- 2. Slightly d:sagree
- 3. Slightly a ee
- 4. Strongly agree
- 90. Family planning on barth control has been discussed by many people. What is your feeling about a married couple practicing birth control? Do you think they are doing something good or bad? If you had to decide, would you say that are doing wrong, or that they are doing right?
 - 1. It is always wrong
 - 2. It is usually wrong
 - 3. It is probably all right
 - 4. It is always right
- 91. People have different ideas about what should be done concerning automation and other new ways of doing things. He do you feel about the following statement?

"Automation and similar new procedures should be encouraged (in government, business, and industry) since eventually they create new jobs and raise the standard of living."

- 1. Strongly disagree
- 2. Slightly disagree
- 3. Slightly agree
- 4. Strongly agree
- 92. Running a village, city, town, or any governmental organization is an important job. What is your feeling on the following statement?

"Political leaders should be changed regularly, even if they are doing a good job."

- 1. Strongly dis gree
- Slightly disagree
- 3. Slightly agree
- 3968
- 4. Stronely sures



- 93. Some poeple believe that more local government income should be used for education even it doing so means raising the amount you pay in taxes. What are your feelings on this?
 - 1. Strongly disagree
 - 2. Slightly disagree
 - 3. Slightly agree
 - 4. Strongly agree
- 94. Some people believe that more federal government income should be used for education even if doing so means raising the amount you pay in taxes. What are your feelings on this?
 - 1. Strongly disagree
 - 2. Slightly disagree
 - 3. Slightly agree
 - 4. Strongly agree
- 95. People have different ideas about planning for education in their nation. Which one of the following do you believe is the best way?
 - Educational planning should be primarily directed by the church
 - 2. Planning for education should be left entirely to the parents
 - 3. Educational planning should be primarily directed by the individual city or other local governmental unit
 - 4. Educational planning should be primarily directed by the national government
- 96. In respect to your religion, about to what extent do you observe the rules and regulations of your religion?
 - 1. I prefer not to answer
 - 2. I have no religion
 - 3. Sometimes
 - 4. Usually
 - Almost always



ABS-MR: U.S.

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- 97. I fird it easier to follow rules than to do things on my own.
 - 1. Agree strongly
 - 2. Agree slightly
 - 3. Disagree slightly
 - 4. Disagree strongly

QUESTIONNAIRE: HP

This part of the questionnaire deals with your experiences or contacts with handicapped persons. Perhaps you have had much contact with handicapped persons, or you may have studied about them. On the other hand, you may have had little or no contact with handicapped persons, and may have never thought much about them at all.

- 98. Some handicapped conditions are listed below. In respect to these various handicaps, with which one have you had the most actual experience?
 - 1. blind and partially blind
 - 2. deaf, partially deaf, or speech impaired
 - 3. crippled or spastic
 - 4. mental retardation
 - 5. social or emotional disorders

In the following questions, 99 through 103 you are to refer to the category of the handicapped persons you have just indicated.

- 99. The following questions have to do with the kinds of experiences you have had with the category of handicapped person you indicated in the previous question. If more than one category of experience applies, please choose the answer with the highest number.
 - 1. I have read or studied about handicapped persons through reading, movies, lectures, or observations
 - 2. A friend or relative is handicapped
 - I have personally work with handicapped persons as a teacher, counselor, volunteer, child care, etc.
 - 4. I, myself have a fairly serious handicap



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- 100. Considering all of the times you have talked, worked, or in some other way had personal contact with the category of handicapped persons indicated in question 98, about how many times has it been altogether?
 - 1. Less than 10 occasions
 - 2. Between 10 and 50 occasions
 - 3. Between 50 and 100 occasions
 - 4. Between 100 and 500 occasions
 - 5. More than 500 occasions
- 101. When you have been in contact with this category of handicapped people how easy for you, in general, would it have been to have avoided being with these handicapped persons?
 - 1. I could not avoid the contact
 - f could generally have avoided these personal contacts only at great cost of difficulty
 - 3. I could generally have avoided these personal contacts only with considerable difficulty
 - I could generally have avoided these personal contacts but with some inconvenience
 - I could generally have avoided these personal contacts without any difficulty or inconvenience
- 102. During your contact with this category of handicapped persons, did you gain materially in any way through these contacts, such as being paid, or gaining academic credit, or some such gain?
 - No, I have never received money, credit, or any other material gain
 - 2. Yes, I have been paid for working with handicapped persons
 - 3. Yes, I have received academic credit or other material gain
 - 4. Yes, I have both been paid and received academic credit
- 103. If you have been paid for working with handicapped persons, about what percent of your income was derived from contact with handicapped persons during the actual period when working with them?
 - 1. No work experience
 - 2. Less than 25%
 - 3. Between 26 and 50%
 - 4. Between 51 and 75%
 - 5 36.... 41 77.00



- 104. If you have ever worked with <u>any category</u> of handicapped persons for personal gain (for example, for money or some other gain), what <u>opportunities</u> did you have (or do you have) to work at something else instead; that is, soemthing else that was (or is) acceptable to you as a job?
 - 1. No such experience
 - 2. No other job was available
 - 3. Other jobs available were not at all acceptable to me
 - 4. Other jobs available were not quite acceptable to me
 - 5. Other jobs available were fully acceptable to me
- 105. Have you had any experience with <u>mentally retarded</u> persons? Considering all of the times you have talked, worked, or in some other way had personal contact with <u>mentally retarded</u> persons, about how many times has it been altogether?
 - 1. Less than 10 occasions
 - 2. Between 10 and 50 occasions
 - 3. Between 50 and 100 occasions
 - 4. Between 100 and 500 occasions
 - 5. More than 500 occasions
- 106. How have you generally felt about your experiences with mentally retarded persons?
 - 1. No experience
 - 2. I definitely disliked it
 - 3. I did not like it very much
 - 4. I liked it somewhat
 - 5. I definitely enjoyed it

ABS-MR: U.S.

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LIFE SITUATIONS

This section of the booklet deals with how people feel about several aspects of life or life situations. Please indicate how you feel about each situation by circling the answer you choose.

war once and for all

107. It should be possible to eliminate

- 1. strongly disagree
- 2. oisagree
- 3. agree
- 4. strongly agree
- 109. Success depends to a large part on luck and fate.
 - 1. strongly agree
 - 2. agree
 - 3. disagree
 - 4. strongly disagree
- 111. Some day most of the mysteries of the world will be revealed by science.
 - 1. strongly disagree
 - 2. disagree
 - 3. agree
 - 4. strongly agree
- 113. By improving industrial and agricultural methods, poverty can be eliminated in the world.
 - 1. strongly disagree
 - 2. disagree
 - 3. agree
 - 4. strongly agree
- 115. With increased medical knowledge it should be possible to lengthen the average life span to 100 years or more.
 - 1. strongly disagree
 - 2. disagree
 - 3. agree
 - 4. strongly agree

- 108. How sure do you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure
- 110. How sure do you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure
- 112. How sure do you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure
 - 114. How sure **do** you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure
 - 116. How sure do you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure



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- 117. Someday the deserts will be converted into good farming land by the application of engineering and science.
 - 1. strongly disagree
 - 2. disagree
 - 3. agree
 - 4. strongly agree
- 119. Education can only help people develop their natural abilities; it cannot change people in any fundamental way.
 - 1. strongly agree
 - 2. agree
 - 3. disagree
 - 4. strongly disagree
- 121. With hard work anyone can succeed.
 - 1. strongly disagree
 - 2. disagree
 - 3. agree
 - 4. strongly agree
- 123. Almost every present human problem will be solved in the future.
 - 1. strongly disagree
 - 2. disagree
 - 3. agree
 - 4. strongly agree

- 118. How sure do you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure
- 120. How sure do you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure
- How sure do you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure
- 124. How sure do you feel about your answer?
 - 1. not sure at all
 - 2. not very sure
 - 3. fairly sure
 - 4. very sure



ABS-MR: U.S.

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MENTAL RETARDATION

This section of the questionnaire deals, with information about mental retardation. Please circle your answer!

- Which of the following is a preferred method of educating mentally handicapped children:
 - 1. to give the child work he can do with his hands (handicraft, weaving).
 - to place the child in a vocational training school
 - (3) to make the program practical and less academic
 - to present the same material presented to the average child but allowing more time for practice.
- 126. In educating the mentally handicapped (IQ 50-75) child, occupational training should begin:
 - upon entering high school
 - 2. the second year of high school
 - 3. the last year of high school
 - (4) when the child enters school
- 127. The major goal of training the mentally handicapped is:

 - 2. academic proficiency 3. occupational adequacy
 - 4. occupational adjustment
- Normal children reject mentally handicapped children because:
 - 1. of their poor learning ability
 - of unacceptable behavior
 - they are usually dirty and poor
 - they do not "catch on"
- 129. The emotional needs of mentally handicapped are:
 - 1. stronger than normal children
 - 2 the same as normal children
 - 3. not as strong as normal children
 - 4. nothing to be particularly concerned with
- 130. The proper placement for the slow learner (IQ 75-90) is in:
 - the regular classroom
 - special class
 - 3. vocational arts
 - 4. regular class until age of 16 and then dropped out of school

 $^{^{1}}$ "Correct" answers are circled.



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ABS-MR: U.S.

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- 131. In school, the slow learner ususally:
 - 1. is given a lot of successful experiences
 - meets with a great many failures
 3. is a leader

 - 4. is aggressive
- 132. In grading the slow learner, the teacher should:
 - 1. be realistic, if the child is a failure, fail him
 - (2) grade him according to his achievement with relation to his ability
 - 3. not be particularly concerned with a grade
 - 4. grade him according to his IQ
- 133. The studies with regard to changing intelligence of pre-school children indicate that:
 - intellectual hange may be accomplished 2. no change can be demonstrated

 - 3. change may take place more readily with older children
 - 4. the IQ can be increased at least 20 points if accelerated training begins early enough
- 134. The development and organization of a comprehensive educational program for the mentally handicapped is dependent upon:
 - adequate diagnoses
 - proper training facilities
 - 3. a psychiatrist
 - 4. parent-teacher organizations
- 135. The mentally handicapped are physically:
 - markedly taller
 - 2. markedly shorter
 - 3. heavier
 - **(4)** about the same as the average child of the same age
- 136. The mentally handicapped child:
 - looks quite different from other children
 - is in need of an educational program especially designed for his needs and characteristics
 - 3. can never be self-supporting
 - 4. cannot benefit from any educational program
- 137. The mentally handicapped individual usually becomes:
 - 1. a skilled craftsman
 - 2. a professional person
 - a semi-skilled laborer
 - unemployable



ABS-MR: U.S.

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- 138. The educationally handicapped have:
 - 1. at least average intelligence
 - 2. superior intelligence only
 - 3. always have retarded intelligence
 - 4 may have somewhat retarded, average, or superior intelligence.
- 139. The mentally handicapped have:
 - 1. markedly inferior motor development
 - 2. superior motor development
 - 3. superior physical development
 - about average motor development
- 140. The reaction of the public toward the retarded child seems to be:
 - 1. rejecting
 - somewhat understanding but not completely accepting
 - 3. accep ing
 - 4. express feelings of acceptance but really feel rejecting



APPELDIA A.4

Counterpart Personnel by Nation



COUNTERPART PERSONNEL

1. Belize

Dr. John E. Jordan Michigan State University College of Education East Lansing, Michigan

2. Brazil

Dr. Walter marker Division of Vocational Rehabilitation State of Florida 1201 E. Atlantic Blvd. Pompano Beach, Florida 33060

Dr. Olivia Perreira Sociedade Pestalozzi do Brazil Rua Gutavo Sampais, 29-Leme Rio de Janeiro Brazil

3. Colombia

Kenneth Gottlieb Ingham Community Mental Health Center Lansing, Michigan

Dr. Louis Porez Psychology Department Universidad del Valle Cali, Colombia

4. Germany

Dr. Lawrence Harrelson
Psychology Department
Veterans Administration Hospital
Battle Creek, Michigan

Dr. Hartmut Horn Special Education and Educational Psychology Ruhr College of Education Dortmund, Germany (West)

5. Israel

Dr. E. Chigier Israel Association for Rehabilitation of the Mentally Handicapped 40 Joseph Zvi Road Ramat Gan, Israel

Dr. Louis Guttman Scientific Director Israel Institute of Applied Social Research 19 George Washington Avenue P. O. Box 7150 Jerusalem, Israel



6. <u>Iran</u>

Dr. Iraj Aynan National Institute of Psychology P. O. Bott 741 Tehran, Iran

7. United States

Kentucky

Dr. William Cessna Asbury Seminary Wilmore, Kentucky

Michigan

Dr. James Green
Director of Special Education
Shiawassee County Public Schools
Coruna, Michigan

Texas

Dr. Kenneth Morin Counseling Center Northern Michigan University Marquette, Michigan

8. Yugoslavia

Miss Dada Vurdelja, M.A. Republic Institute of Social Welfare-SRH Zagreb, Yugoslavia

Dr.B. Prazic, Director Mental Hospital Gunduliceva 35 Zagreb, Yugoslavia



APPENDIX A.5

A.5.72 Sample Sizes, Means, and Standard Deviations for Research Groups on the ABS-MR

A.5.83 Simplex Results for Research Groups on the ABS-MR



Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR SER, RST, PMR, MAN, and PNR Groups¹

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See Table 2/ for samples and/or groups.



Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR Female, Male, and Total Groups

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Does not include three test development samples.



Table A.5.74

Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR Brazil SER, MAN, and PNR Groups

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Table A.5.75

Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR Colombia SER, RST, and PMR Groups

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	Groups	7 T T T T T T T T T T T T T T T T T T T	37,000	31,449	19.504	4.687	3,020	3.122	3,306	•	M THE	48,935	43,784	49.365	23,297	1.797	2,635	2.808	3.297	3,730		47.202	36,413	45.778	34 905	3,942	1,29	3.257	3.535	3,476		HEAN		43,375	49.120	24,482	1.145	2.651	3.010	5.00° ×	3,732		MEAN 46.072	28.188	47.203	95 710	2,138	1,261	2,652	2,872	
	and PNR	z .	147	147	147	147	14	147	4 4 4 7 7		z	7.4	4 4	7.4	7.7	* *	7.4	73	2 7	74		ż -	144	***	7 7 7	138	137	4 4	144	142		٠,	2 4	2.0	83	en o	3 60	83	5 60 6	9 m	82		z	6.9	64	۰ ۰ ۲	65	69	6 0	? o	. O
ations	MAN,	# # # # # # # # # # # # # # # # # # #	2 de 1	V 4 4 4 7	V AR15	VARIB	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	VAR27	VARUA >		MAKE	VAR 3	0 4 4 5 6 4 4 5	V4812	\$ C 4 2	× × ×	VAR24	'AB27	0 7 4 4 5 6 4 4 5 6 4 4 5 6 4 4 5 6 4 4 5 6 4 5 6 4 5 6 4 5 6 4 5 6 6 4 5 6 6 6 6	VARSE	:	44.45	9 24 >	VAR	4 4 7	< AP 18	VAR21	< * * * * * * * * * * * * * * * * * * *	VARSB	< AP 3 3 3 4 4 5 4 5 4 5 5 6 4 7 5 6 4 7 5 6 4 7 5 6 4 7 6 6 6 4 7 6 6 6 6 6 6 6 6 6 6 6 6		2.4.2. 2.4.5.	2 4 4	0 0 0 4 >	VAR12	2 t d 4 > 2	VAP21	V A R 24	75G47	9 2 4 2	VAF36		Ε Ε Ε Ε Ε Ε Ε Ε	4 A 4 5	0 a V	VA412	VARIA	VA: 21	4504	200	D F G 4 5
	ST, PMR,	STO DEV	6.828	6.127	31-108	2,579	0.524	1,332	0.924		SYU DEV	5,437	5,367	6.907	33,587	1.485	1.039	1,414	504.0	0.736		5.504	5.137	6.4.8	101.101	2.204	0.369	1.262	0.852	1,110		STD DEV	¥ C Y - 4	6.255	6.858	25.700	0.217	1.552	0.623	1.004	3.767		STO DEV	5,466	7,942	40.04	2,029	0,546	1. 4.0 4.0 4.0	A C C) (I
tand	SER, RS	15 15 15 15 15 15 15 15 15 15 15 15 15 1	44,633	50.626	289.027	6:177	4.657	3:272	2.442	0.54	VEAN	32,419	35:216 44:068	18.486	207,649	1.822	3.649	3,122	3,162	1,233		37.130	39:639	46:397	46.834 278 284	6.403	1.046	3.151	3,125	3:069		4EAV	15.400	44:458	46.566	259;325	1.049	2.687	2.867	3. U/ 2.51A	3.422		MF AN	40,000	43.478	244.645	6.826	1.101	7.116	1.145	5 6 6
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iz	the AB	GA1 SEP STU DEV	4,770	9,477	11.179	7,129	1,34	0.450	3,776		542 HST 518 DEV	4,857	19.540	7.080	7,232	9.6.1	1.620	3,281	4.985	1.763	GR4 PH4	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.846	15.433		446	:.550	1.026	: , 762	858	CRS MAN	S12 0EV	950.7	844.61	5.R24	5.961	1,6,3	1,267	0.000	1, 15	3,737	GRA PAR	ST. DEV	536,4	2, 220	120°	4,247	1,433	0.44	0.60	7 0
Sam	les for	C GEFFALLY	. 6.	51	1 7	9 :	4.7	2:	4 % ;	,	President President	29,446	42,652	50,041	241,25	2.8.67	2,757	4,946	3.354	3.276	DY GPRMANY	11.257	46,951	2,6,9,5	49+//E	23.244	1,855	4 1 4 1	2.750	3,34. 3,008	1	2 t t 1,			19,500							DY GERMANY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	39,743	226.517	94.00	9 m 1 - 6-3	5.143	t) ii	6 . P. C	
	Variab	ATIONAL STUD								į	5	4	4 7 4	7.4	4 ,	1 1	74	4.	4 4	7.4	ATIONAL STU									11 14 44 4 54 5	ATICARE ST.		o in	. ec	ED.	a. a	o.	n	-7 -	, i	s, a,	ATTONAL STU				* O					
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Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR Israel SFR, PMR, PNR, and PRO Groups

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MRRAN 450-524 450-524 450-528 260-5213 260-5213 360-5213	MERA MERA	MEAN 34.40 38.727 43.045 43.045 6.651 6.600 0.000 3.136 3.136 3.136 3.136	MEAN 35.087 40.478 40.4739 64.739 61.30 61.30 62.130 7.957 7.957 7.957 7.957
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STD DEV	3,000	4917	6,238	8,640	3+249	0,792	1,064	500 ° E	1,031	8 969 8	6,759	8,917		200	*±0 #±0	988	3,942	8,583	9,832	2,700	£ 4664	1,286	0,736	4.039	0,890	0,787	226.0
M S	20.00	36,160	46,440	46,800	27,660	4,840	1,360	3,280	2,280	2,980	1,959	3,340		24 02	* 4 U L	46,224	29,796	47,531	46,469	26,286	2.4962	1,463	3,143	2,408	3,061	2,286	3,292
z:	5.2	200	50	50	e a	70	53	50	50	50	4	ы Ви		2	*	Q-	4	49	44	49	96	41	4	6.4	9	49	3j ≸₹
М Ж.	VAR	VAR 6	VAR 9	VAR12	VAR19	VAR18	VAR21	VAR24	V4R27	VAR30	VARBS	VAR3¢								VARIS							
STD DEV	5,587	9,148	5.920	7.039	23+056	2,386	0.965	#0 # O	1,039	0,820	0,882	0 : 724			Ann nex	5,959	5,737	8 592	8,254	36,682	2-143	1.796	1+307	1,060	0.744	0.761	929+0
MEAN	43:920	43,840	45,820	47,380	276;900	54980	1.260	4.000	2,400	3,020	2:720	3,080			MEAN	42:490	39,571	47:612	48;571	270;714	7+1.02	2,115	2,000	2:796	3,000	2,625	2,750
z	20	20	50	50	20	50	20	50	50	50	20	50		1	2	49	49	4	49	49	-64	56	8	49	4.8	4	84:
NAME	VAR 2	VAR 5	VAR 8	VAR11	VAR14	VAR17	VAR20	VAR23	VAR26	VAR29	VAR32	VAR35			NAME	VAR 2	VAR 5	VAR B	VARIL	VAR14	VAR17	VAR20	VAR23	V AR 26	V AR 29	V AR 32	V AR35
GR4 PMR	Š	چ	5	6,74	4	8	9	63	23	6	5	\sim	0		SID DEV	5,077	6.484	16,771	6,908	6,282	3,604		யா	۳	۳.	157	0,713
⊃ ≻z	3,56	5,26	1,42	50.4	0.04	9	1,24	8	85	9	32	9			۷.	.75	46	3,30	0.30	30,224	0.36	34	8	4.6	۰	30	70
<u>ا</u> ۔ 4	50	50	50	50	50	50	50	4 .	50	50	4	50		NA L	Z		0	4	4	4	4.00	56	46	4	64	4	4. ©
KR INTERN	VAR 1	VAR 4	VAR 7	VAR10	VAR13	VAR16	VAR19	VAR22	VAR25	VAR28	VAR31	VAR34	٠	- ! -	NAME	VAR 1	VAR 4	VAR 7	VARIO	VARIS	YAR16	VAR19	VAR22	VAR25	VAR28	VAR31	VAR34

Table A.5.78

Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR Yugoslavia PMR and PNR Groups



Sample Sizes, Means, and Standard Deviations cm 36 Variables for the ABS-MR Kentucky SER, RST, and MAN Groups

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S	S	N
A	N	X
KY GRL SER STD DEV 6,904 15,774 7,936 8,355 1,710 0,863 0,917 1,114	XX STD SX STD DEV 24, 48, 22, 24, 48, 74, 48, 74, 48, 74, 74, 74, 74, 74, 74, 74, 74, 74, 74	XY GRS MAN STD DEV 4,162 27,308 8,563 8,563 11,584 11,584 11,302 0,923 1,020
STUDY KENTUCKY 26,880 227,360 49,680 29,700 29,700 29,700 29,700 2,800 3,340 2,940	STUDY KENTUCKY 29.370 29.370 21.926 35.833 27.833 27.538 2.679 2.667 3.352	STUDY KENTUCK 30,800 219,800 47,800 37,800 37,200 3,211 2,842 2,500 3,550
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Table A.5.80

Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR Michigan PMR and PNR Groups

(i)	5,88	25	11,	10,235	54	.27	38	. B.	10,	74	.83	69		-	4		۳,	ر۳.	٠.		•	۳,	್	φ.	9.944	u:_
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NAME	VAR 3	VAR 6	VAR 9	VAR12	VAR15	VAR18	VARZI	VAR24	VAR27	VAR30	VARBS	V AR 36		NA SE	ν Υ	AR	A	VAR12	α V	4	¥	AR	AR	AR	VAR33	VAR36
a	9.9	9	9	8.259	0	ç	æ	ď	æ	æ	2	•		STD DEV	4,732	8,058	604.9	7.734	29,990	1,912	1.397	1.473	0.666	0,667	1.034	0,728
A EAN	37;707	41:293	41.927	49,195	270:024	8:073	1,333	4,231	4,220	2,902	2,390	2,854		¥	•	ģ	ċ		•	•	•	•			2,485	
Z:	41	41	41	41	41	41	36	39	41	41	41	41		z	33	33	33	33	33	33	32	32	33	33	33	33
A A	VAR 2	VAR 5	VAR 8	VAR11	VAR14	VAR17	VARZO	VAR23	VAR26	VAR29	V AR32	VAR35		NAME	VAR 2	VAR 5	VAR S	VAR11	VAR14	VAR17	VAR20	VAR23	VAR26	VAR29	VAR32	V AR35
AN GR4 PMR STD DEV	900'9	7,658	25,145	9,177	09646	3,371	1,739	1,350	0,771	ന	0,813	6	9	TO DEV	4	M	4	7,448	8,361	3,5117	83	S	0,653	\mathbf{a}	0.820	rU.
TUDY MICHIGAN GR.	33,976	n	244,512	22	10	٦.	97	4,350	339	58	3,195	7	STUDY MICHIGAN	M M M M M M M M M M M M M M M M M M M	32,727	44,576	218,515	42,182	35,182	27,636	3,250	2,727	3,364	2,636	3,121	2,848
TERNATIONAL STUDY	41	41	41	44	41	41	41	4.0	4	4	41	41	NTERNATIONAL S		33	33	33	33		33			33			33
MR INTERNINAME	VAR 1	4 AA 4	VAR 7	VAR10	VAR13	VAR16	VAR19	VAR22	VAR25	VAR28	VAR31	VAR34	MR INTERN	AME	V A A 1	VAR 4	VAR 7	VAR10	VAR13	VAR16	VAR19	VAR22	VAR25	VAR28	VAR31	VAR34



Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR Texas SER, RST, PMR, PNR Groups

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2	Z	N 40	2 < < < < < < < < < < < < < < < < < < <
STD DEV 5.262 6.637 9.581 11.2051 12.191 12.191 12.191 12.191 12.191 12.191 12.191 12.191 13.191 14.191 14.195 14.	STD DEV 7,260 7,417 7,417 8,618 3,779 2,694 0,898 0,898 0,898 0,907	NA DE COMPANY OF COMPA	STD DEV STB DEV STB SE STB STB SE STB STB STB SE STB STB STB STB STB STB STB STB STB STB
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	Z 4 4 4 4 4 4 4 4 4 4 4 4 0 0 0 0 0 0 0 0	S 4 4 4 4 4 4 4 4 4 4 4 4 0 0 0 0 0 0 0 0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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STR STR SER STR SER STR SER STR SER SER SER SER SER SER SER SER SER SE	GR2 RS STD DEV 7,948 7,948 9,235 11,453 6,853 0,869 0,869 0,583 0,883	5.00 PM	STD DEV Z 10
STUDY TEXAS MELAN 31.200 24.00 44.000 44.000 44.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0	STUDY TEXAS HEAN 35,750 230,230 24,292 34,833 24,688 30,642 1,750 4,938 2,396 2,396 3,521 3,521	STUDY TEXAS MEAN 455.061 253,653 48,245 48,245 20,1592 27,155 2,041 4,479 2,388 3,184 2,388	STUDY TEXAS HEAN 33,005 43,005 43,005 45,654 28,107 28,118 2,947 2,345 3,263 3,263 3,263
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Sample Sizes, Means, and Standard Deviations on 36 Variables for the ABS-MR School Diagnosticians, Females, Males, & Total Groups

STD DEV	•	6,2	8,2	7.7	χ. 4	1.1	1,3	8.0	1.0	5,0	0.7	0.5		STD DE	7,59	7,08	9,18	12,6	4,94	9,4	7 7 7		180	5 0 988	66.0		ate ats	7.73	96.9	8,62	8,68	5,18	1.59	1.653	1.1.	9.0	86.6	0,91		STD DE	7.50	7 0 S	6.63	80.6	θ	1,587	1.56	1,13	87.	82
X 40 2	ъ	35	N	51	24	•	4	2	m	m	2,73	3,29		EA	42,74	32,64	44.78	48,88	22,55	3,00	1,40		3.1.0				ū	10	33,	45	90.	23.	m	2.076		, M	2.	· ~		X E X	43,06	32,95	45,05	49.28	55,69	= :	1.96	2,42	04.0	2 20
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¹School Diagnosticians



 $^{^2}$ Includes three test development samples.

 $\label{eq:table A.5.83}$ Simplex Results of Three Samples on the ABS-MR

RST Total (1093)

PMR Total (398)



¹Complete results for all groups will be contained in the forthcoming book (see page ii).

APPENDIX A.6

Code Book



CODE BOOK*

CROSS-CULTURAL ATTITUDES TOWARD

MENTAL RETARDATION: CONTENT, STURCTURE,

AND DETERMINANTS

John E. Jordan College of Education Michigan State Universi July 1, 1968

INSTRUCTIONS FOR USE OF THIS CODE BOOK

- 1. Code 0 for a one column no response, or 00 for a two column no response, or 000 for a three column no response will mean there was No Information, Respondent did not answer, or not Applicable.
- 2. In each case in the following pages the <u>column to the left</u> contains the column number of the IBM card; the <u>second column</u> contains the question number from the questionnaire; the <u>third column</u>(item detail) contains an abbreviated form of the item; and the <u>fourth column</u> contains the code within each column of the IBM card with an explanation of the code.
- 3. Coder instructions always follow a line across the page and are clearly indicated.



^{*}This code book contains directions for scoring the 3968 version of the Attitude Behavior Scale: Mental Retardation (ABS-MR). It is specifically for the United States sample and limited modifications and/or additions are made in certain nations and/or states. Special instructions are devised for each study and must be consulted before scoring that sample.

Code Book

1

<u>Col</u> .	Scale/Item	Item Detail	Code
1,2	face sheet	nation/state	Ol-19 United States Ol- Michigan O2- Kentucky O3- Georgia
			20-29 Western Europe 20- Germany 21- Denmark
			30-39 Eastern Europe 30- Yugoslavia 31- Poland 32- Czechoslovakia
			40-49 Middle East 40- Israel 41- Iran 42- Turkey
			50-59 Far East 50- India 51- Japan
			60-79 Latin America 60- Belize(British Honduras) 61- Colombia 62- Brazil 63- Venzuela 64- Costa Rica

-2-

Code Book

Col.	Scale/Item	Item Detail	Code
3,4	face sheet	Group No.1	Administration group ⁴ Ol Class sections of MSU Ed. 200, Jan.1968 15 16 MSU Medical class Dec.1967
5-7	ABS-MR	Subject No.	001 Assign at to time of 999 Administration
8	ABS-MR	Card No.	1 Scale 1 plus constants 2 Scale 2 plus constants 3 Scale 3 plus constants 4 Scale 4 plus constants 5 Scale 5 plus constants 6 Scale 6 plus constants 7 Life and MR scales plus contants
9	ABS-MR Q81 ³	Sex	1 female 2 male

See <u>Special Instructions</u> sheet for each nation and/or study to ascertain group no. identification. Also see <u>Card 7</u>, col. 70, 71 footnote.

 $^{^2}$ Constants refer to first 35 columns of each card. See <u>Card 1</u> for nature of these 35 columns.

 $^{^3\}mathrm{See}$ page 21 of the U.S. 3968 version of the ABS-MR scale.

⁴See col. 80 (of all 7 cards) for "interest" or occupational group number. Also see <u>Special Instructions</u> for each study and/or nation.

Code Book

ABS-MR-Card 1

<u>Col.</u>	Scale/Item	<u>Item Detail</u>	Code
10	ABS-MR Q-82	a ge	1 Under 20 2 21 - 30 3 31 - 40 4 41 - 50 5 50 - over
11	ABS-MR Q-83	Educ. Exper. (kind)	<pre>1 None 2 Elem. 3 Sec. 4 Univ. 5 Other</pre>
12	ABS-MR Q-84	Marital Status	1 Married2 Single3 Divorced4 Widowed5 Separated
13	ABS-MR Q-85	Religion (affiliation)	<pre>1 Refuse 2 Catholic 3 Protestant 4 Jewish 5 Other</pre>
14	ABS-MR Q-86	Religion (importance)	<pre>1 Refuse 2 None 3 Not very 4 Fairly 5 Very</pre>
15	ABS-MR Q-87	Education (amount)	1 6 yrs./less 2 9 yrs./less 3 12 yrs./less 4 Some univ. 5 Degree
16	ABS-MR Q-88	Self Change	1 Very difficult2 Slightly difficult3 Easy4 Very easy



ABS-MR-Card 1

Code Book

Col.	Scale/Item	Item Detail	Code
17	ABS-MR Q-89	Child rearing practices	<pre>1 strongly disagree 2 slightly disagree 3 slightly agree 4 strongly agree</pre>
18	ABS-MR Q-90	Birth Control	1 Always wrong2 Usually wrong3 Probably right4 Always right
19	ABS-MR Q-91	Automation	<pre>1 strongly disagree 2 slightly disagree 3 slightly agree 4 strongly agree</pre>
20	ABS-MR Q~92	Political leaders	<pre>1 strongly disagree 2 slightly disagree 3 slightly agree 4 strongly agree</pre>
21	ABS-MR Q-93	Aid educ. (local)	<pre>1 strongly disagree 2 slightly disagree 3 slightly agree 4 strongly agree</pre>
22	ABS-MR Q-94	Aid educ. (national)	<pre>1 strongly disagree 2 slightly disagree 3 slightly agree 4 strongly agree</pre>
23	ABS-MR Q-95	Educ. plan.	1 Church 2 Parents 3 Local 4 National
24	ABS-MR Q-96	Religion (adherence)	<pre>1 Refuse 2 None 3 Sometimes 4 Usually 5 Almost always</pre>



Code Book

<u>Col.</u>	Scale/Item	<u>Item Detail</u>	<u>Code</u>
25	ABS-MR Q-97	Rules (follow)	<pre>1 agree strongly 2 agree slightly 3 disagree slightly 4 disagree strongly</pre>
26	ABS-MR Q-HP-98	HP Contact (Category)	<pre>1 blind 2 deaf 3 crippled 4 M.R. 5 E.D.P.</pre>
27	ABS-MR Q-HP- 9 9	HP Contact (nature)	<pre>1 studied 2 relative 3 worked with 4 self HP</pre>
28	ABS-MR Q-HP-100	HP Contact (amount)	1 less 10 2 10 - 50 3 50 - 100 4 100 - 500 5 500 - +
29	ABS-MR Q-HP-101	HP Contact (avoid)	<pre>1 could not 2 very difficult 3 considerably difficult 4 inconvenient 5 could avoid</pre>
30	ABS-MR Q-HP-102	HP Contact (gain)	<pre>1 No 2 Paid 3 Credit 4 Gain & credit</pre>
31	ABS-MR Q-HP-103	HP Contact (% income)	<pre>1 no reward 2 less 25% 3 26 - 50% 4 51 - 75% 5 75% - over</pre>



Code Book

$ABS-MR-Card_1$

6

<u>Col.</u>	Scale/Item	Item Detail	<u>Code</u>
32	ABS-MR Q-HP-104	HP Contact (alternatives)	<pre>1 no work 2 none 3 not acceptable 4 not quite 5 acceptable</pre>
33	ABS-MR Q-HP-105	MR Contact (amount)	1 less 10 2 10-50 3 50-100 4 100-500 5 500-+
34	ABS-MR Q-HP-106	MR Contact (enjoy)	<pre>1 no experience 2 disliked 3 not much 4 liked some 5 enjoyed</pre>
35	Constant no. (i.e.,	1) required here re comp	puter program.
36	Scale I -Q 1	Energy - C ¹	1 less 2 same 3 more
37	Scale I -0 2	Energy - I	1 not sure 2 fairly sure 3 sure
38	Scale I - Q 3	School work - C	1 less 2 same 3 more

The letters "C" and "I" refer to content and intensity respectively, to differentiate the two answers to each question.

 $^{^2\,\}mathrm{See}$ page 2 of the U.S. 3968 version of the ABS-MR scale.



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Code B**o**ok

<u>Col.</u>	Scale/Item	Item Detail	Code
39	Scale I - Q 4	School Work - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
40	Scale I - Q 5	Memory - C	<pre>1 not as good 2 same 3 better</pre>
41	Scale I ~ Q 6	Memory - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
42	Scale I - Q 7	Unusual sex - C	<pre>1 more 2 same 3 less</pre>
43	Scale I - Q 8	Unusual sex - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
44	Scale I - Q 9	Good marriage - C	1 less 2 same 3 more
45	Scale I - Q 10	Good marriage - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
46	Scale I - Q 11	Many children - C	<pre>1 more 2 same 3 less</pre>
47	Scale I - Q 12	Many children - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
48	Scale I - Q 13	Faithful-spouse-C	1 less 2 same 3 more

(400)

8

Code Book

ABS-MR-Card 1

Col.	Scale/Item	<u>Item Detail</u>	Code
49	Scale I - Q 14	Faithful-spouse- l	<pre>1 not sure 2 fairly sure 3 sure</pre>
50	Scale I - Q 15	Care of children - C	l less 2 same 3 better
51	Scale I - Q 16	Care of children - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
5 2	Scale I - Q 17	Obey law - C	1 less 2 same 3 more
53	Scale I - Q 18	Obey law - I	l not sure2 fairly sure3 sure
54	Scale I - Q 19	Steady work - C	1 less 2 same 3 more
55	Scale I - Q 20	Steady work - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
56	Scale I - Q 21	Works hard - C	1 not as much 2 same 3 more
57	Scale I - Q 22	Vorks hard - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
58	Scale I - Q 23 !	Plans future - C	1 not as likely 2 same 3 more

(209)

9

Code Book

ABS-MR-Card 1

<u>Col.</u>	Scale/Item	Item Detail	Code
59	Scale I - Q 24	Plans future ~ I	<pre>1 not sure 2 fairly sure 3 sure</pre>
60	Scale I - Q 25	Fun now - C	1 more so 2 same 3 less so
61	Scale I - Q 26	Fun now - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
62.	Scale 1 - Q 27	Cruel - C	1 more 2 same 3 less
63	Scale I - Q 28	Cruel - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
64	Scale I - Q 29	Sexually loose C	1 more loose 2 same 3 less loose
65	Scale I - Q 30	Sexually loose - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
66	Scale I - Q 31	Initiative - C	1 less 2 same 3 more
67	Scale I - Q 32	Initiative - I	<pre>1 not sure 2 fairly sure 3 sure</pre>

3968



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Code Book

ABS-MR-Card 1

Col.	Scale/Item	<u>Item Detail</u>	<u>Code</u>
68	Scale I - Q 33	Self-support - C	<pre>l less able 2 same 3 more able</pre>
69	Scale I - Q 34	Self-support - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
70	Scale I - Q 35	MR p r efer - C	<pre>1 with self 2 with normal 3 with all</pre>
71	Scale I - Q 36	MR prefer - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
72	Scale I - Q 37	MR educ C	<pre>1 not important 2 uncertain 3 important</pre>
73	Scale I - Q 38	MR educ I	<pre>1 not sure 2 fairly sure 3 sure</pre>
74	Scale I - Q 39	Strict rules - C	<pre>1 more 2 same 3 less</pre>
75	Scale I - Q 40	Strict rules - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
80	face sheet	Occupational or interest group	1 SER 2 elem teachers 3 sec. teachers 4 parents 5 managers/executives 6 laborers 7 students 8 parents of non-retarded
③ I <i>C</i> 368			9 professionals



Code Book

ABS-MR-Card 2

Col.	Scale/Item	Item Detail	<u>Code</u>
FIRST 35 COLU	JMNS SAME AS CARD 1 EXCEPT	FOR COL. 8, CARD NO.	
36	Scale II - Q 41	School playground - C	<pre>1 not approved 2 undecided 3 approved</pre>
37	Scale II - Q 42	School playground - I	1 not sure 2 fairly sure 3 sure
38	Scale II - Q 43	Visit homes - C	<pre>1 not approved 2 undecided 3 approved</pre>
. 39	Scale II - Q 44	Visit homes - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
40	Scale II - Q 45	Camping trips - C	<pre>1 not approved 2 undecided 3 approved</pre>
41	Scale II - Q 46	Camping trips - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
42	Scale II - Q 47	Si mp le learning - C	<pre>believed undecided not believed</pre>
43	Scale II - Q 48	Simple learning - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
44	Scale II - Q 49	Stay overnight - C	<pre>1 not approved 2 undecided 3 approved</pre>



Code Book

ABS-MR-Card 2

Col.	Scale/Item	Item Detail	Code
45	Scale II - Q 50	Stay overnight - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
46	Scale II - Q 51	Parties - C	1 not approved2 undecided3 approved
47	Scale II - Q 52	Parties - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
48	Scale II - Q 53	Hired only if - C	1 approved2 undecided3 not approved
49	Scale II - Q 5/4	Hired only if - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
50	Scale II - Q 55	Neighborhood - C	1 not approved2 undecided3 approved
51	Scale II - Q 56	Neighborhood - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
52	Scale II - Q 57	Date - C	1 not approved2 undecided3 approved
53	Scale II - Q 58	Date - I	1 not sure 2 fairly sure 3 sure



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13

Code Book

<u>Col.</u>	Scale/Item	<u>Item Detail</u>	<u>Code</u>
54	Scale II - Q 59	Movies - C	<pre>1 not approved 2 undecided 3 approved</pre>
55	Scale II - Q 60	Movies - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
56	Scale II - Q 61	Marry others - C	1 not approved2 undecided3 approved
57	Scale II - Q 62	Marry others - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
58	Scale II - Q 63	Sterilized (males) - C	1 approved2 undecided3 not approved
59	Scale II - Q 64	Sterilized (males) - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
60	Scale II - Q 65	Sterilized (females) - C	1 approved2 not sure3 not approved
61	Scale II - Q 66	Sterilized (females) - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
62	Scale II - Q 67	Friends - C	<pre>1 not approved 2 not sure 3 approved</pre>
63 ()	Scale II - Q 68	Friends - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
3968		228	

Code Book

ABS-MR-Card 2

<u>Col.</u>	Scale/Item	<u> Item Detail</u>	Code
64	Scale II - Q 69	Sex appeal - C	1 not so 2 not sure 3 usually so
65	Scale II - Q 70	Sex appeal - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
66	Scale II - Q 71	Dangerous - C	<pre>1 usually 2 not sure 3 not usually</pre>
67	Scale II - Q 72	Dangerous - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
68	Scale II - Q 73	Run machines - C	1 not approved2 not sure3 approved
69	Scale II - Q 74	Run machines - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
70	Scale II - Q 75	Money,trusted -C	<pre>1 not usually 2 not sure 3 usually</pre>
71	Scale II - Q 76	iloney,trustea - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
72	Scale II - Q 77	No spee c h- C	<pre>1 not usually 2 not sure 3 usually</pre>
73	Scale II - Q 78	No spee c h- I	1 not sure2 fairly sure3 sure

ABS-MR-Card 2

Code Book

Col.	Scale/Item	<u>Item Detail</u>	<u>Code</u>
74	Ccale II - Q 79	Provide - self - C	<pre>1 usual 2 not sure 3 not usual</pre>
7 5	Scale II - Q 80	Provide - self - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
80	face sheet	Occupational or interest group	1 SER 2 elem. teachers 3 sec teachers 4 parents 5 managers/executives 6 laborers 7 students 8 parents of non-retarded 9 professionals



Code Book

16

Col.	Scale/ Item	<u>Item Detail</u>	Code
FIRST 35 CO	LUMNS SAME AS CARD 1	EXCEPT FOR COL. 8, CARD NO.	
36	Scale III - Q 81	Camping trip - C	<pre>1 wrong 2 undecided 3 right</pre>
37	Scale III- Q 82	Camping trip - I	1 not sure 2 fairly sure 3 sure
38	Scale III - Q 83	Movies - C	1 wrong2 undecided3 right
39	Scale III - Q 84	Movies - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
40	Scale III - Q 85	Visit overnight - C	<pre>1 wrong 2 undecided 3 right</pre>
41	Scale III - Q 86	Visit overnight - I	<pre>1 not sure 2 fairly sure 3 sure</pre>



Code Book

ABS-MR-Card 3

17

Col.	Scale/Item	Item Detail	Code
42	Scale III - Q 87	MR Party - C	<pre>1 wrong 2 undecided 3 right</pre>
43	Scale III - Q 88	MR Party - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
44	Scale III - Q 89	E1. Ed. Cost - C (gov. part)	<pre>1 wrong 2 undecided 3 right</pre>
45	Scale III - Q 90	El. Ed. Cost - I (gov. part)	<pre>1 not sure 2 fairly sure 3 sure</pre>
46	Scale III - Q 91	El. Ed. Cost - C (gov. all)	<pre>1 wrong 2 undecided 3 right</pre>
47	Scale III - Q 92	El. Ed. Cost - I (gov. all)	1 not sure 2 fairly sure 3 sure



Code Book

ABS-MR-Card 3

Col.	Scale/Item_	Item Detail	Code
48	Scale III - Q 93	High School Cost - C (gov. all)	<pre>1 wrong 2 undecided 3 right</pre>
49	Scale III - Q 94	High School Cost - I (gov. all)	<pre>1 not sure 2 fairly sure 3 sure</pre>
50	Scale III - Q 95	Medical Cost - C (gov. part)	<pre>1 wrong 2 undecided 3 right</pre>
51	Scale III - Q 96	Medical Cost - I (gov. part)	<pre>1 not sure 2 fairly sure 3 sure</pre>
52	Scale III - Q 97	Medical Cost - C (gov. all)	l wrong 2 undecided 3 right
53	Scale III - Q 98	Medical Cost - I (gov. all)	<pre>1 not sure 2 fairly sure 3 sure</pre>



Code Book

ABS-MR-Card 3

<u>Col</u> .	Scale/Item	Item Detail	Code
54	Scale III - Q 99	Food-Clothing - C (money)	<pre>1 wrong 2 undecided 3 right</pre>
55	Scale III - Q 100	Food-Clothing - I (money)	<pre>1 not sure 2 fairly sure 3 sure</pre>
56	Scale III - Q 101	Parties - C	<pre>1 wrong 2 undecided 3 right</pre>
57	Scale III - Q 102	Parties - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
58	Scale III - Q 103	Date non-MR - C	<pre>1 wrong 2 undecided 3 right</pre>
59	Scale III - Q 104	Date non-MR - I	<pre>1 not sure 2 fairly sure 3 sure</pre>



Code Book

Col.	Scale/Item	<u>Item Detail</u>	Code
60	Scale III - Q 105	Movies non-MR - C	<pre>1 wrong 2 undecided 3 right</pre>
61	Scale III - Q 106	Movies non-MR - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
62	Scale III - Q 107	Marry non-MR - C	<pre>1 wrong 2 undecided 3 right</pre>
63	Scale III - Q 108	Marry non-MR - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
64	Scale III - Q 109	Soldier - C	<pre>1 wrong 2 undecided 3 right</pre>
65	Scale III - Q 110	Soldier - I	<pre>1 not sure 2 fairly sure 3 sure</pre>

Code Book

Col.	Scale/Item	Item Detail	Code
66	Scale III - Q 111	Protection - C (laws)	<pre>1 wrong 2 undecided 3 right</pre>
67	Scale III - Q 112	Protection - I (laws)	<pre>1 not sure 2 fairly sure 3 sure</pre>
68	Scale III - Q 113	Around City - C	<pre>1 wrong 2 not sure 3 right</pre>
69	Scale III - Q 114	Around City - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
70	Scale III - Q 115	Sterilize - C (males)	1 right 2 not sure 3 wrong
71	Scale III - Q 116	Sterilize - I (males)	<pre>1 not sure 2 fairly sure 3 sure</pre>



Code Book

ABS-MR-Card 3

Col.	Scale/Item	<u>Item Detail</u>	<u>Code</u>
72	Scale III - Q 117	S epe rate Classes - C	<pre>1 right 2 not sure 3 wrong</pre>
73	Scale III - Q 118	Seperate Classes - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
74	Scale III - Q 119	Reserve Jobs - C	<pre>1 wrong 2 not sure 3 right</pre>
7 5	Scale III - Q 120	Reserve Jobs - I	<pre>l not sure 2 fairly sure 3 sure</pre>
80	face sheet	Occupational or interest group	1 SER 2 elem. teachers 3 sec. teachers 4 parents 5 managers/executives 6 laborers 7 students 8 parents of non-retarded 9 professionals

Code Book

Col.	Scale/Item	Item Detail	Code
FIRST 35 COL	UMNS SAME AS CARD 1	EXCEPT FOR COL. 8, CARD N	0.
36	Scale IV-Q 121	Share Seat-C	1 no 2 don't know 3 yes
37	Scale IV-Q 122	Share Seat-I	<pre>1 not sure 2 fairly sure 3 sure</pre>
38	Scale IV 123	Fellow Worker-C	1 no 2 don't know 3 yes
39	Scale IV-Q 124	Fellow worker-I	1 not sure 2 fairly sure 3 sure
40	Scale IV-Q 125	Employee-C	1 no 2 don't know 3 yes
41	Scale IV-Q 126	Employee-I	<pre>1 not sure 2 fairly sure 3 sure</pre>

Code Book

Col.	Scale/Item	Item Detail	Code
42	Scale IV - Q 127	Live next to - C	1 no 2 don't know 3 yes
43	Scale IV - Q 128	Live next to - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
44	Scale IV - Q 129	Party - C	1 no 2 don't know 3 yes
45	Scale IV - Q 130	Party - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
46	Scale IV - Q 131	Dinner - C (house)	1 no 2 don't know 3 yes
47	Scale IV - Q 132	Dinner - I (house)	<pre>1 not sure 2 fairly sure 3 sure</pre>

Code Book

ABS-MR-Card 4

Col.	Scale/Item	<u>Item Detail</u>	Code
48	Scale IV - Q 133	Movies - C	1 no 2 don't know 3 yes
49	Scale IV - Q 134	Movies - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
50	Scale IV - Q 135	Date - C	1 no 2 don't know 3 yes
51	Scale IV - Q 136	Date - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
52	Scale IV - Q 137	Progeny-Date - C	1 no 2 don't know 3 yes
53	Scale IV - Q 138	Progeny-Date - I	<pre>1 not sure 2 fairly sure 3 sure</pre>

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ERIC*

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Code Book

26

ABS-MR-Card 4

<u>Col</u> .	Scale/Item	<u>Item Detail</u>	Code
54	Scale IV-Q 139	Progen y- marr y - C	1 no 2 don't know 3 yes
55	Scale IV-Q 140	Progen y- marr y - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
56	Scale IV-Q 141	Sexual ease - C	1 no 2 don't know 3 yes
57	Scale IV-Q 142	Sexual ease - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
58	Scale IV-Q 143	Working with MR - C	1 no 2 don't know 3 y es
59	Scale IV-Q 144	Working with MR - I	<pre>1 not sure 2 fairly sure 3 sure</pre>





Code Book

27

ABS-MR-Card 4

Col.	Scale/Item	<u>Item Detail</u>	Code
60	Scale IV-Q 145	MR <u>VS</u> other- C	1 no 2 don't know 3 yes
61	Scale IV-Q 146	MR VS other- I	<pre>1 not sure 2 fairly sure 3 sure</pre>
62	Scale IV-Q 147	MR/Emotion- C	1 no 2 don't know 3 yes
63	Scale IV-Q 148	MR/Emotion- I	<pre>1 not sure 2 fairly sure 3 sure</pre>
64	Scale IV-Q 149	Hire MR- C	1 no 2 don't know 3 yes
65	Scale IV-Q 150	Hire MR- I	<pre>1 not sure 2 fairly sure 3 sure</pre>

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Code Book

ABS-MR-Card 4

Col.	Scale/Item	Item Detail	Code
66	Scale IV - Q 151	MR in class - C	1 no 2 don't know 3 yes
67	Scale IV - Q 152	MR in class - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
68	Scale IV - Q 153	MR Sterilized - C	1 yes 2 don't know 3 no
69	Scale IV - Q 154	MR Sterilized - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
70	Scale IV - Q 155	Seperate MR - C	<pre>1 yes 2 don't know 3 no</pre>
71	Scale IV - Q 156	Seperate MR - I	<pre>1 not sure 2 fairly sure 3 sure</pre>



Code Book

ABS-MR-Card 4

Col.	Scale/Item	Item Detail	<u>Code</u>
72	Scale IV-Q 157	Care of MR - C (national)	1 no 2 don't know 3 yes
73	Scale IV-Q 158	Care of MR - I (national)	<pre>1 not sure 2 fairly sure 3 sure</pre>
74	Scale IV-Q 159	MR-Special class - C (regualr school)	<pre>1 no 2 don't know 3 yes</pre>
75	Scale IV-Q 160	MR-Special class - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
80	face sheet	Occupational or interest group	1 SER 2 elem. teachers 3 sec. teachers 4 parents 5 managers/executives 6 laborers 7 students 8 parents of non-retarded 9 professionals



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Code Book

ABS-MR-Card 5

Col.	Scale/Item_	<u>Item Detail</u>	Code
FIRST 35 CO	LUMNS SAME AS CARD 1	EXCEPT FOR COL. 8, CARD	NO.
36	Scale V -Q 1	Disliking - C	1 more 2 same 3 less
37	Scale V-Q 2	Disliking - I	1 not sure 2 fairly sure 3 sure
38	Scale V-Q 3	Fearful - C	1 more 2 same 3 less
39	Scale V-Q 4	Fearful - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
40	Scale V-Q 5	Horrified - C	1 more 2 same 3 less
41	Scale V- Q 6	Horrified - I	l not sure 2 fäirly s ure 3 sure

 $^{^{1}}$ See page 15 of the U.S. 3968 version of the ABS-MR scale.





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Code Book

31

ABS-MR-Card 5

Col.	Scale/Item	Item Detail	Code
42	Scale V-Q 7	Loathing-C	1 more 2 same 3 less
43	Scale V-Q 8	Loathing-I	<pre>1 not sure 2 fairly sure 3 sure</pre>
44	Scale V-Q 9	Dismay-C	1 more 2 same 3 less
45	Scale V-Q 10	Dismay-I	<pre>1 not sure 2 fairly sure 3 sure</pre>
46	Scale V-Q 11	Hating-C	1 more 2 same 3 less
47	Scale V-Q 12	Hating-I	<pre>1 not sure 2 fairly sure 3 sure</pre>



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Code Book

32

Col.	Scale/Item	Item Detail	Code
48	Scale V-Q 13	Revulsion-C	<pre>1 more 2 same 3 less</pre>
49	Scale V-Q 14	Revulsion-I	<pre>1 not sure 2 fairly sure 3 sure</pre>
50	Scale V-Q 15	Contemptful-C	1 more 2 same 3 less
51	Scale V-Q 16	Contemptful-I	<pre>1 not sure 2 fairly sure 3 sure</pre>
52	Scale V-Q 17	Distaste-C	<pre>1 more 2 same 3 less</pre>
53	Scale V-Q 18	Distaste-I	<pre>1 not sure 2 fairly sure 3 sure</pre>



Code Book

33

ABS-MR-Card 5

<u>Col</u> .	Scale/ltem_	Item Detail	Code
54	Scale V-Q 19	Sickened - C	1 more 2 same 3 less
55	Scale V-Q 20	Sickened - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
56	Scale V-Q 21	Confused - C	1 more 2 same 3 less
57	Scale V-Q 22	Confused - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
58	Scale V-Q 23	Negative - C	1 more 2 same 3 less
59	Scale V-Q 24	Negative - I	<pre>1 not sure 2 fairly sure 3 sure</pre>



Code Book

34

ABS-MR-Card 5

Col.	Scale/Item	<u>Item Detail</u>	<u>Cod e</u>
60	Scale V-Q 25	At ease - C	1 less 2 same 3 more
61	Scale V-Q 26	At ease - I	1 not sure 2 fairly sure 3 sure
62	Scale V-Q 27	Restless - C	1 more 2 same 3 less
63	Scale V-Q 28	Restless - I	l not sure 2 fairly sure 3 s ure
64	Scale V-Q 29	Uncomfortable - C	1 more 2 same 3 less
65	Scale V-Q 30	Uncomfortable - I	<pre>1 not sure 2 fairly sure 3 sure</pre>



Code Book

ABS-MR-Card 5

Col.	Scale/Item	<u>Item Detail</u>	Code
66	Scale V-Q 31	Relaxed - C	1 less 2 same 3 more
67	Scale V-Q 32	Relaxed - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
68	Scale V-Q 33	Tense - C	1 more 2 same 3 less
69	Scale V-Q 34	Tense - I	1 not sure 2 fairly sure 3 sure
70	Scale V-Q 35	Bad - C	1 more 2 same 3 less
7 1	Scale V-Q 36	Bad - I	1 not sure 2 fairly sure 3 sure

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Code Book

36

ABS-MR-Card 5

Col.	Scale/Item_	Item Scale	<u>Cod e</u>
72	Scale V-Q 37	Calm - C	1 Less 2 same 3 more
73	Scale V-Q 38	Calm - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
74	Scale V-Q 39	Нарру - С	1 less 2 same 3 more
75	Scale V-Q 40	Happy - I	<pre>1 not sure 2 fairly sure 3 sure</pre>
80	face sheet	Occupational or interest group	1 SER 2 elem. teachers 3 sec. teachers 4 parents 5 managers/executives 6 laborers 7 students 8 parents of non-retarded 9 professionals

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Code Book

ABS-MR-Card 6

Col.	Scale/Item	Item Detail	Co	<u>de</u>
FIRST 35 COL	UMNS SAME AS CARD 1	EXCEPT FOR COL. 8, CARD NO.		
36	Scale VI-Q 41	Shared Seat - C	1 2 3	no uncertain yes
37	Scale VI-Q 42	Shared Seat - I	1 2 3 4	no experience unpleasant in between pleasant
38	Scale VI-Q 43	Eaten together - C	1 2 3	no uncertain yes
39	Scale VI-Q 44	Eaten together - I	1 2 3 4	no experience unpleasant in between pleasant
40	Scale VI-Q 45	Same neighborhood - C (lived)	1 2 3	no uncertain yes
41	Scale VI-Q 46	Same néighborhood - I (lived)	1 2 3 4	no experience unpleasant in between pleasant



Code Book

ABS-MR-Card 6

Col.	Scale/Item	Item Detail	Code
42	Scale VI - Q 47	Worked together - C	<pre>1 no 2 uncertain 3 yes</pre>
43	Scale VI - Q 48	Worked together - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
44	Scale VI - Q 49	Boss - C	<pre>1 no 2 uncertain 3 yes</pre>
45	Scale VI - Q 50	Boss - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
46	Scale VI - Q 51	Worked for - C	<pre>1 no 2 uncertain 3 yes</pre>
47	Scale VI - Q 52	Worked for - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>

Code Book

ABS-MR-Card 6

Col.	Scale/Item	Item Detail	<u>Code</u>
48	Scale VI - Q 53	Acquaintance - C	<pre>1 no 2 uncertain 3 yes</pre>
49	Scale VI - Q 54	Acquaintance - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
50	Scale VI - Q 55	Good Friends - C	<pre>1 no 2 uncertain 3 yes</pre>
51	Scale VI - Q 56	Good Friends - C	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
52	Scale VI - Q 57	Donated to help - C	<pre>1 no 2 uncertain 3 yes</pre>
53	Scale VI ~ Q 58	Donated to help - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>



Code Book

ABS-MR-Card 6

Col.	Scale/Item	Item Detail	Code
54	Scale VI - Q 59	Husband/Wife - C	<pre>1 no 2 uncertain 3 yes</pre>
55	Scale VI - Q 60	Husband/Wife - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
56	Scale VI - Q 61	Self/Similar - C	1 no 2 uncertain 3 yes
57	Scale VI - Q 62	Self/Similar - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
58	Scale VI - Q 63	Best Friend - C	<pre>1 no 2 uncertain 3 yes</pre>
59	Scale VI -Q 64	Best Friend - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>

Code Book

ABS-MR-Card 6

Col.	Scale/Item	Item Detail	Code
60	Scale VI - Q 65	Worked/Pay - C	1 yes 2 no
61	Scale VI - Q 66	Worked/Pay - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
62	Scale VI - Q 67	Children/Play - C	<pre>1 no 2 uncertain 3 yes</pre>
63	Scale VI - Q 68	Children/Play - I	1 no experience 2 unpleasant 3 in between 4 pleasant
64	Scale VI - Q 69	Children/School - C	<pre>1 no 2 uncertain 3 yes</pre>
65	Scale VI - Q 70	Children/School	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>

Code Book

ABS-MR-Card 6

Col.	Scale/Item	Item Detail	Code
66	Scale VI-Q 71	Extra taxes - C	1 no 2 not certain 3 yes
67	Scale VI-Q 72	Extra taxes - I	1 no experience 2 unpleasant 3 in between 4 pleasant
68	Scale VI-Q 73	Worked/Jobs - C	1 no 2 not certain 3 yes
69	Scale VI-Q 74	Worked/Jobs - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
70	Scale VI-Q 75	Sexually enjoyed - C	1 no 2 no answer 3 yes
71	Scale VI-Q 76	Sexually enjoyed - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>



Code Book

ABS-MR-Card 6

Col.	Scale/Item	Item Detail	<u>Code</u>
72	Scale VI - Q 77	St: . :d About - C	1 no 2 yes
73	Scale VI - Q 78	Studied About - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
74	Scale VI - Q 79	Worked/Teacher - C	1 no 2 yes
75	Scale VI - Q 80	Worked/Teacher - I	<pre>1 no experience 2 unpleasant 3 in between 4 pleasant</pre>
80	face sheet	Occupational or interest group	1 SER 2 elem. teachers 3 sec. teachers 4 parents 5 managers/executives 6 laborers 7 students 8 parents of non-retarded 9 professionals



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Code Book

Y.,

ABS-MR-Card 7

Col. Scale/Item

Item Detail

Code

FIRST 35 COLUMNS SAME AS CARD 1 EXCEPT FOR COL. 8, CARD NO.

<u>Life Situations Scale</u>¹

36	Life Q 107	Eliminate war - C	1 2 3 4	disagree
37	Life Q 108	Eliminate war - I	1 2 3 4	not very sure
38	Life Q 109	Luck/Fate - C	1 2 3 4	agree di s agree
39	Life Q 110	Luck/Fate - I	1 2 3 4	•

¹See page 28 of the U.S. 3968 version of the ABS-MR scale. This scale is intended to measure <u>Efficacy</u> or man's sense of control over his environment. See Husen, J. (Ed.) <u>International Study of Achievement in Mathematics</u>. Vol. I, New York: John Wiley and Sons, 1967.

Code Book

ABS-MR-Card 7

Col.	Scale/Item	<u>Item Detail</u>	Code
40	Life Q 111	Science Believe - C	<pre>1 strongly disagree 2 disagree 3 agree 4 strongly agree</pre>
41	Life Q 112	Science Believe - I	<pre>1 not sure 2 not very sure 3 fairly sure 4 very sure</pre>
42	Life Q 113	Poverty Eliminate - C	<pre>1 strongly disagree 2 disagree 3 agree 4 strongly agree</pre>
43	Life Q 114	Poverty Eliminate - I	<pre>1 not sure 2 not very sure 3 fairly sure 4 very sure</pre>
<u>.</u> 44	Life Q 115	Life/Length - C	1 strongly disagree2 disagree3 agree4 strongly agree
45	Life Q 116	Life/Length - I	<pre>1 not sure 2 not very sure 3 fairly sure 4 very sure</pre>

Code Book

ABS-MR-Card 7

<u>Col</u> .	Scale/Item	Item Detail	<u>Code</u>
46	Life Q 117	Deserts/Farming - C	<pre>1 strongly disagree 2 disagree 3 agree 4 strongly agree</pre>
47	Life Q 118	Deserts/Farming - I	<pre>1 not sure 2 not very sure 3 fairly sure 4 very sure</pre>
48	Life Q 119	Educ./Change - C	<pre>1 strongly agree 2 agree 3 disagree 4 strongly disagree</pre>
49	Life Q 120	Educ./Change - I	<pre>1 not sure 2 not very sure 3 fairly sure 4 very sure</pre>
50	Life Q 121	Work succeeds - C	<pre>1 strongly disagree 2 disagree 3 agree 4 strongly agree</pre>
51	Life Q 122	Work succeeds - I	<pre>1 not sure 2 not very sure 3 fairly sure 4 very sure</pre>

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Code Book

ABS-MR-Card 7

Col.	Scale/Item	Item Detail	Code
52	Life Q 123	Problems Solved-C	<pre>1 stronglv disagree 2 disagree 3 agree 4 strongly agree</pre>
53	Life Q 124	Problems Solved-I	<pre>1 not sure 2 not very sure 3 fairly sure 4 very sure</pre>
	Mental	Retardation Knowledge Sca	ale ¹
54	NR Q 125	Educating MR	<pre>1 handwork 2 vocational *3 practical 4 practice</pre>
55	MR Q 126 *	Occup. Trainning MR	<pre>1 entering high school 2 2nd year high school 3 last year high school *4 beginning of school</pre>

ERIC*

Adapted from Haring, N. S., Stern, G. G., and Cruickshank, W. N., Attitudes of Educators toward Exceptional Children, Syracuse: Syracuse University Press, 1958.

The correct answer to each item is starred. Seven of the items(starred ones) discriminate well between high and low scores on the scale and also have acceptable levels of "difficulty". These items(126, 127, 128, 130, 134, 139, 140) should be used as the MR Knowledge Scale in statistical analysis(see Harrelson, L. A facet theory analysis of attitudes toward the mentally retarded in the Federal Republic of Germany:Content, Structure, and Determinants, unpublished doctoral thesis, Michigan State University, 1969).

Code Book

ABS-MR-Card 7

Col.	Scale/Item	<u>Item Detail</u>	Code
56	MR Q 127 *	Educ. Goal MR	* 1 social adequacy 2 academic prof. 3 occup. adequacy 4 occup. adj.
57	MR Q 128 *	Rejection of MR	<pre>1 poor learning * 2 behavior 3 dirty and poor 4 don't catch on</pre>
58	MR Q 129	Enot. needs MR	1 stronger * 2 same 3 not as strong 4 no concern
59	MR Q 130 *	Slow learnér (placement)	* 1 regular class 2 special class 3 voc. arts. 4 reg. till 16
60	MR Q 131	Slow learner (in school)	1 successful * 2 failure 3 leader 4 aggressive

Code Book

ABS-MR-Card 7

Col.	Scale/Item	Item Detail	<u>Code</u>
61	MR Q 132	Slow learner (grades)	<pre>1 fail if indicated *2 grade to ability 3 grade no concern 4 grade to I.Q.</pre>
62	MR Q 133	Changing IQ	*1 can change 2 no change 3 change in older 4 change if early
63	MR Q 134 *	Comp. program MR	*1 diagnosis 2 facilities 3 psychiatrist 4 organization
64	MR Q 135	Physically MR	<pre>1 taller 2 shorter 3 heavier *4 average</pre>
65	MR Q 136	MR child	<pre>l look different *2 need special ed. 3 never support self 4 cannot benefit</pre>

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Code Book

ABS-MR-Card 7

Col.	Scale/Item	Item Detail	Code
66	MR Q 137	MR becomes	<pre>1 craftsman 2 professional *3 semi-skilled 4 unemployable</pre>
67	MR Q 138	ED. Handicapped	<pre>1 average IQ 2 high IQ 3 low IQ *4 varied IQ</pre>
68	MR Q 139 *	Physically MR	<pre>1 inferior motor 2 superior motor 3 superior physical *4 average motor</pre>
69	MR Q 140 *	Public Reaction MR	<pre>1 rejecting *2 some acceptance 3 acceptance 4 covert rejection</pre>
70,71	MK Knowledge Scale	Knowledge about ¹ MR (16 items)	1 to total number correct 16
72	MR Knowledge Scale	Knowledge about ² MR (7 items)	1 to total number correct 16
80	Face sheet	Occupational or interest group	1 SER 2 elem teachers 3 sec teachers 4 parents 5 managers executives 6 laborers 7 students 8 parents of non-retarded 9 professionals

 $^{^{1}}$ For U.S. groups 1-16 only (1.e. Ed. 200: 1-15 and Medical Class: no. 16).



²The seven "starred" items (1.e. 126, 127, 128, 130, 134, 139, and 140). These seven items should be used as the MR Knowledge Scale.

APPENDIX 7

Variable List by Nation/Group



ABS-MR: Basic Variable List by IBM Card and Column Belize Study

	·····	Variable ¹	Card	Column	Page	Item	
4.	1.	Stereotyp e	1	36,38 alter to 74	2-4	1,3 alter to 39	
تر تو	2.	Normat ive	2	36,38 alter to 74	5-7	41,43 79	'
tu	3.	Moral Evaluation	3	· · · · · · · · · · · · · · · · · · ·		81,83	
ti	4.	Hypothetical	4	36,38 alter to 74		121,123 159	
Attitude Content	5.	Feeling	5			1,3	
	6.	Action7	6	36,38 alter to 74		41,43 79	
y	8.	Stereotype	1	37,39 alter to 75	2-4	2,4 40	
Attitude Intensity	9.	Normative	2	37,39 alter to 75	5 - 7	42,44 80	
tu ns	10.	Moral Evaluation	3	27,39 alter to 75		82,84 120	
t i	11.	Hypothetical	4			122,124 160	
At	12.	Feeling	5	37,39 alter to 75	15-17	2,4 40	
	13.	Action	6	37,39 alter to 75	18-20	42,44 80	
	15.	Efficacy - Cont.	7	36,38 alter to 52	28,29	107,109 123	
K3_ 2>	16.	Efficacy - Int.	7	37,39 alter to 53		108,110 124	
К3	17.	MR Knowledge	7	54-69	30-32	125-140	
	18	HP Amount	1-7	28	26	100	
၌	19.	HP Avoid	1-7	29	26	101	
Contact	20.	HP Income	1-7	31	26	103	
5	21.	HP Alter.	1-7	32	27	104	
٥	22.	MR Amount	1-7	33	27	105	
	23.	MR Enjoy	1-7	34	27	106	
e e	24.	Age	1-7	10	21	82	
gr	25.	Educ. Amount	1-7	15	21	87	
Demogra phíc	26.	Religion Impor.	1-7	14	22	86	
De	27.		1-7	24	24	96	
Change D	28.	Self Change	1-/	16	22	88	
9, 7c	29.	Child Rearing	1-7	17	23	89	
ing at	30.	Birth Control	1-7	18	23	90	
it it	31.	Automation	1-7	19	23	91	
O P	32.	Political Lead.	1-7	20	23	92	
	32. 33.	Rule Adher.	1-7	25	25	97	
i	34.	Lucal Aid	1-7	21	24:	93	
Educ	35	Federal Aid	1-7	22	24	94	
Ĕ	36_	Ed. Planning	1-7	2 3	24	95	
al	37.	Sex ⁵	1-7	9	21	81	
U	38.	Ed. Contact Var.	1-7	11	21	83	
127	20	Marital Status	1-7	12	22	84	
188 E	40.	Religion - Affil.	1-7	13	22	85	
Catego; Lata	40. 41.	HP Category	1-7	26	25	98	
ပိ	42.	HP Gain	1-7	30	26	102	
2	43.	Nation (60)	1-7	1,2	none	none	
Identity Data	44.	Group (Adm.)	1-7	3,4	none	none	
dent	45.	Subject no.	1-7	5-7	none	none	
ğä	46.,	Card no.	1-7	8	no ne	none	
I –	47	Group (Occup.6)	1-7	80	none	none	

 $^{^{1}\}textsc{Based}$ on ABS-MR 3768 edition $^{2}\textsc{Not}$ used in <u>r</u> analysis $^{3}\textsc{K}\textsc{=}\textsc{Knowledge}$

5female=1; male=2 6Groups (Col. 80) 2=RST

7
Totals omitted but numbering system retained since computer program already wrtten.



⁴v=Value

ABS-MR: Basic Variable List by IBM Card and Column Brazil (Harker) Study

	٧	ariable ¹	Card	Column	Page	Item
ي ا	1.	Stereotype	ı	36,38 alter to 74	2-4	1,3 alter to 39
de de	2.	Normative	2	36,38 alter to 74	5 -7	41,43 79
itu de ontent	3.	Moral Evaluation	3	36,38 alter to 74	8-11	81,83 119
Attitu de Conten	4.	Hypothetical	4	36,38 alter to 74	12-14	121,123 159
At	5.	Feeling	5	36,38 alter to 74	15-17	1, 3 39
	6.	Action	. 6	36,38 alter to 74	18-20	41,43 79
	8.	Stereotype	1	37,39 alter to 75	2-4	2,4 40
Attitude Intensity	9.	Normative	2	37,39 alter to 75		42,44 80
uC IS	10.	Moral Evaluation	3	37,39 alter to 75	8-11	82,84 120
it	11.	Hypothetical	4	37,39 alter to 75		122,124 160
in tr	12.	Feeling	5	37,39 alter to 75	15-17	2,4 40
4.7	13.	Action ⁹	6	37,39 alter to 75	18-20	42,44 80
44	15.	Efficacy - Cont.	7	36,38 alter to 52	28,29	107,109 123
L	16.	Efficacy - Int.	7	37,39 alter to 53	28,29	108,110 124
K3	17.	MR Knowledge	7	54-69	30-32	125-140
_	18.	HP Amount	1-7	28	26	100
Contact8	19.	HP Avoid	1-7	29	26	101
ac	20.	HP Income	1-7	31	26	103
l g	21.	HP Almer.	1-7	32	27	104
ပိ	22.	MR Amount	17	3 3	27	105
	23,	MR Enjoy	1-7	34	27	106
Demogra phic	24.	Age	1~7	10	21	82
00.11	25.	Educ. Amount	1-7	15	21	87
je d	2 6.	Religion Impor.	1-7	14	22	86
	2/_	Religion Adher.	1-7	24	24	96
ار ا	2 8.	Self Change	1-7	16	22	88
Change lentatic	29.	Child Rearing	1-7	17	23	8 9
ומנ זרנ	30.	Birth Control	1-7	18	23	9 0
is is	31.	Automation	1-7	19	23	91
Ori	32.	Political Lead.	1-7	20	23	92
	33,	Rule Adher.	<u>1-7</u>	25	25	97_
Educ	34.	Local Aid	1-7	21	24	93
p ₂	35.	Federal Aid	1-7	22	24	94
	<u> 36.</u>	Ed. Planning	1-7	23	24	95
ca 2	37.	Sex ⁵	1-7	9	21	81
		Ed. Contact Var.	1-7	11	21	83
Categori Data	39.	Marital Status	1-7	. 12	22	84
te	40.	Religion - Affil.	1-7	13	22	85
g	41.	HP Category	1-7	26	25	9 8
	 -	HP Gain	1-7	30	26	102
4	43.	Nations (62)	1-7	1,2	none	none
ti ti	44. 45.	Group (Adm.)	1-7	4, 3	none	none
en Da	45.	Subject no.	1-7	5-7	none	none
Identity Data	40.	Card no.	1-7	8	none	none
	<u>47.</u>	Group (Occup.6)	1-7		none	none

 $¹_{\mbox{\footnotesize{Based}}}$ on ABS-MR 3968 edition

5female=1; male=2

6Groups (Col.80)

²Not used in <u>r</u> analys**is**

 $³_{K=Knowledge}$

⁴v: Value

Totals omitted but numbering system retained since computer program already written.

¹⁼SER

^{5 =}MAN

^{8 =} MNR

⁷HP amoun^t - omitted in Blazil

 $^{^{8}}$ Contact=in Brazil refers only to MR

ABS-MR: Basic Variable List by IBM Card and Column.
Colombia (Gottlieb) Study

Sa: 1e 3

		1				
	V	ariable ^l	Card	Column	Page	116.
	1.	Stereotype	1	36,38 alter to 74	2-4	1,3 alter to 39
d T	2.	Normative	2	36,38 alter to 74	5 -7	41,43 79
t c	3	Moral Evaluation	3	36,38 alter to 74	8 - 1.1	81,83
Attitude	4.	Hypothetical	4	36,38 alter to 74		121,123 159
O tr	5	Feeling	5	36,38 alter to 74	15-1	3 39
	6.	Action7	6	36,38 alter to 74	18-20	4. 43 79
3	8.	Stereotype	1	37,39 alter to 75	2-4	4C
de	8. 9. 10. 11.	Normative	2	37,39 alter to 75	5- 1	4 80
t u	no.	Moral Evaluation	3	37,3 9 alter to 75	5- 1	. ,84 120
t t	11.	Hypothetical	4	37,39 alter to 75	114	122,124 160
At	12.	Feeling	5	37,39 alter to 75		2,4 40
	13,	Action7	6	37,39 alter to 75		42,44 80
	15.	Efficacy - Cont.	7	36,38 alter to 52		107,109 123
¥ K3	16.	Efficacy - Int.	7	37,39 alter to 53		108,110
К3	17,	MR Knowledge	7	54-69	30-32	125-140
l u	18.	HP Amount	1-7	28	26	100
Contact	19.	HP Avoid	1-7	29	26	101
l i	20.	HP Income	1-7	31	26	103
ē	21.	HP Alter	1-7	32	27	104
	22.	MR Amount	1-7	33	27	1.05
ľ	23	MR Enjoy	1-7	34	27	106
Demogra	24.	Age .	1-7	10	21	82
08	25.	Educ. Amount	1-7	15	2 1	87
e d	26.	Religion Impor.	1-7	14	22	86
Ă T	27_	Religion Adher,	1-7	24	24	96
E O	20	Self Change	1-7	16	22	88
1 i	29.	Child Rearing	1-7	17	23	89
an ta	30.	Birth Control	1-7	18	23	90
5 5	31.	Automation	1-7	19	23	91
7	32.	Political Lead.	1-7	20	23	92
Change Orientatio	33	Rule Adher.	1-7	25	25	97
Educ.	34.	Local Aid	1-7	21	24	93
Ę.	3 5.	Federal Aid	1-7	22	24	94
	36	Ed. Planning	1-7	23	24	95
ical	37.	Sex 5	1-7	9	21	81
1.c	3 8.	Ed. Contact Var.	1-7	11	21	83
ા ધા તા	39.	Marital Status	1-7	12	22	84
eg Da	39. 40.	Religion -Affil.	1-7	13	22	85
Catego	41.	HP Category	1-7	26	2 5	98
I	42	HP Gain	1-7	30	26	102
t t	43.	Nation	1-7	1,2	face	none
Identi	44. 45.	Group (adm.)	1-7	3,4	f a ce	none
e n	45.	Subject no.	1-7	5-7	none	none
Id	46	Card no.	1-7	8	none	none
<u> </u>	47.	Group ⁶ (occup.)	1-7	80	none	none

 $^{1}\textsc{Based}$ on ABS-MR 3968 edition $^{2}\textsc{Not}$ used in <u>r</u> analysis $^{3}\textsc{K}=\textsc{Knowledge}$ $^{4}\textsc{V}=\textsc{Value}$

5female = 1; male = 2
6Groups (col. 80)

1=SER
2=RST-E
3=RST-S combine as indicated

4=PMR

⁷Totals omitted but numbering system retained since computer program already written.



abo-rik: Basic variable List by IBM Card and Column Germany (Harrelson) Study

Sample 4

_							
	٧	ariable ¹	Card	Column	Page	Item	
	1.	Ste r eotype	1	3t,38 alter to 74	2-4	1,3 alter	to 3 9
Actitude	2.	Normative	2	36,3 8 alter to 74	5-7	41,43	79
ctitude	13.	Moral Evaluation	3	36, 38 alter to 74	9-11	81,8 3	119
t i	4.	Hypothetical	4	36,38 alter to 74	12-14	121,123	159
Αc	5.	Feeling	5	36,38 alter to 74		1,3	39
	6.	Action ⁷	6	36,38 alter to 74		41,43	7 9
>	8.	Stereotype	1	37,39 alter to 75	2-4	2.4	40
Attitude Intensity	9.	Normative	2	37,39 alter to 75	5 -7	42,44	80
t	10.	Moral Evaluation	3	37,39 alter to 75		82,84	120
ti t	11.	Hypothetical	4	37,39 alter to 75	12-14	122,124	160
At	12.	Feeling,	5	37,39 alter to 75	15-17	2,4	40
	13	Action /	6	37,39 alter to 75	18-20	42,44	80
\$	15.	Efficacy - Cont.	7	36,38 alter to 52	28,29	107,109	123
	16.	Efficacy - Int.	7	37,39 alter to 53	28,29	108,110	124
K3	17.	MR Knowledge	7	54-69	50 -3 2	125-140	
1	18.	HP Amount	1-7	28	26	100	
Contact	19.	HP Avoid	1-7	29	26	101	
ta	20.	H P Income	1-7	31	26	103	
on	21.	HP Alter.	1-7	32	27	104	
O	22.	MR Amount	1-7	33	27	105	
	23.	MR Enjoy	1-7	34	27	106	
ra	24. 25. 26.	Age	1-7	10	21	82	
98 31	25.	Educ. Amount	1-7	15	21	87	
e H	26.	Religion Impor.	1 - 7	14	22	8 6	
		Religion Adher.	1-7	24	24	96	
l a	28.	Self Change	1-7	16	22	88	
" I	29.	Child Rearing	1-7	17	23	⁻ 89	- 1
Change	30.	Birth Control	1-7	18	23	90	
ha	31.	Automation	1-7	19	23	91	
10.1		Political Lead	1-7	20	23	92	1
L a	_33 <u>.</u>	Rule Adher.	1-7	25	25	97	}
Educ.	34.	Local Aid	1~7	21	24	93	
l q	35 .	Federal Aid	1-7	22	24	94	
	36.	Ed. Planning	1-7	23	24	95	Ì
cal	37.	Sex ⁵	1-7	9	21	81	
1.40	3 8.	Ed. Contact Var.	1-7	11	21	83	
egor Data	3 9.	Marital Status	1-7	12	22	84	ļ
eg Da		Religion - Affil.	1-7	13	22	85	ľ
Categor Data	41.	HP Category	1-7	26	25	98	
10	42.	HP Gain	1-7	30	26	102	
>	43.	Nation (20)	1-7	1,2	none	none	
Identity Data	44.	Group (adm.)	1-7	3,4	none	none	1
ent	45.	Subject no.	1-7	5-7	none	none	ļ
19 9	70.	Card no.	1-7	8	none	none	1
<u></u>	47,	Group ⁶ (Occup.)	1-7	80	none	none	1

```
^{1}\mathrm{Based} on ABS-MR 3968 edition ^{2}\mathrm{Not} used in \underline{r} analysis ^{3}\mathrm{K}\text{--}\mathrm{Knowledge} ^{4}\mathrm{V}\text{--}\mathrm{Value}
```

 5 female = 1; male = 2 6Groups (Col. 80)

1=SER 2:=RST

4=PMR 5=MAN

8=PNR



⁷Totals omitted but numbering system retained since computer program already written.

מאס - יות: pasic variable bist by IBM Card and Column Israel (Chigier) Study

Sample 5

	V	ariable ¹	Can i	Column	Page	Item	
1	Ī.	Stereotype	1	36,38 alter to 74	2-4,	1,3	alter to39
de	2.	Normative	2	36,38 alter to 74	5 - 7	41,43	79
Attitude Content	3.	Moral Evaluation	3	36,38 alter to 74	8 - 11	81,83	119
t:	4.	Hypothetical	4	36,38 alter to 74	12-14	121,12 3	159
A P	5.	Feeling	5	36,38 alter to 74		1,3	39
	6.	Action/	6	36 38 alter to 74		41,43	79
-	8.	Stereotype	1	37,39 slter to 75		2,4	40
le l	9. 10.	Normative	2	37,39 alter to 75		42,44	80
Attitude Intensit	10.	Moral Evaluation	3	37,39 elter to 75		82,84	120
	11.	Hypothetical	4	37,39 alter to 75		122,124	160
in tr	12.	Feeling	5	37,39 alter to 75		2,4	40
		Action ⁷	6	37,39 alter to 75		42,44	80
74	15.	Efficacy - Cont.	7	36,38 alter to 52		107,109	123
	16.	Efficacy - Int.	7	37,39 alter to 53		108,110	124
K3	17.	MR Knowledge	7	54-69	3)-32	125-140	
1	18.	HP Amount	1-7	28	26	100	
) o	19.	HP Avoid	1-7	29	26	101	
Contact	20.	HP Income	1-7	31	26	103	
ğ	21.	HP Alter.	1-7	32	27	104	
	22.	MR Amount	1-7	33	27	105	
 	23.	MR Enjoy	1-7	34	27	106	
l a	24	Age	1-7	10	21	82	
180	25.	Educ. Amount	1-7	15	21	87	
Demogra phic	26. 27	Religion Impor.	1-7	14	22	86	
	27,	Religion Adher.	1-7	24	24	96	
5	28. 29.	Self Change	1-7	16	22	88	
[:]	29.	Child Rearing	1-7	17	23	8 9	
Change ientat	30.	Birth Control	1-7	18	23	9 0	
la l	31.	Automation	1-7	19	23	91	
IS 전	31. 32. 33.	Political Lead.	1-7	20	23	92	
	33.	Rule Adher.	1-7	25	25	97	
Educ	34.	Local Aid	1-7	21	24	93	
Ε̈́Ğ	35.	Federal Aid	· 1-7	22	24	94	
L	36.	Ed. Planning	1-7	23	_24	9 5	
l a	37.	Sex5	1-7	9	21	81	
ric a22e	38.	Ed. Contact Var.	1-7	11	21	83	
80 at	39. 40.	Marital Status	1-7	12	22	84	
a d		Religion - Affil.	1-7	13	22	85	
Categor Data	41.	HP Category	1-7	26	25	98	
 	42.	HP Gain	1-7	30	26	102	
b C	43.	Nation	1-7	1,2	none	none	
Identity Data	44. 45.	Group (adm.)	1-7	3,4	none	none	
159	45.	Subject no.	1-7	5-7	none	none	
P	46.	Card no.	1-7	8	none	none	
	47.	Group ⁶ (Occup.)	1-7	80	none	none	

 $^{^{1}}_{2} \mbox{Based on ABS-MR 3968 edition} \\ ^{2}_{Not used in \underline{r} \mbox{ analysis}} \\ ^{3}_{K=Knowledge}$

⁵female = 1; male = 2 ⁶Groups (Col. 80) 1=SER

4 :: PMR

8=PNR

7'Totals omitted but numbering system retained since computer program already written.



⁴v=Value

257 ABS-MR: Basic Variable List by IBM Card and Column Yugoslavia (Vurdelja) Study

Sample 6

	V	ariable ¹	Card	Column	Page	Item
	1.	Sterectype	1	36,38 alter to 74	2-4	1,3 alter to 39
de	2.	Normative	2	36,38 alter to 74	5 - 7	41,43 79
tr tr	3.	Moral Evaluation	3	36,38 alter to 74	8-11	81,83 119
1 E	4.	Hypothetical	4	36,38 alter to 74	12-14	121,123 159
Attitude Content	5.	Feeling	5	36,38 alter to 74	15 - 17	1,3 39
	6	Action7	6	36,38 alter to 74	18-20	41,43 79
	8.	Stereotype	1	37,39 alter to 75	2-4	2,4 40
Attitude Intensity	9.	Normative	2	37,39 alter to 75	5-7	42,44 80
ud is i	10,	Moral Evaluation	3	37,39 alter to 75	8-11	82,84 120
it	11.	Hypothetical	4	37,39 alter to 75	12-14	122,124 160
L t	12,	Feeling	5	37,39 alter to 75	15-17	2,4 40
AH	13.	Action7	6	37 39 alter to 75	18~20	42,44 80
V4	15.	Efficacy - Cont.	7	36,38 alter to 52	28,29	107,109 123
	16.	Efficacy - Int.	7	37,39 alter to 53	28,29	108,110 124
_K 3	17.	MR Knowledge	7	54: -69	30-32	125 -140
	18.	HP Amount	1-7	28	26	100
Contact	19.	HP Avoid	1-7	29	26	101
ta	20.	HP Income	1-7	31	26	103
8	21.	HP Alter,	1-7	32	27	104
Ö	22.	MR Amount	1-7	33	27	105
	23.	MR Enjoy	1-7	34	27	106
Demogra phic	24.	Age	1-7	10	2 i	82
80.11	25.	Educ. Amount	1-7	1 5	21	87
5 ~	26	Religion Impor.	1-7	14	22	86
<u></u>	27.	Religion Adher.	_ 1-7_	24	24	96
Change :ientation	28.	Self Change	1-7	16	22	88
17.0	29.	Child Rearing	1-7	17	23	89
ng ta	30.	Birth Control	1-7	18	23	90
e a	31.	Automation	1-7	19	23	91
0.5	32.	Political Lead.	1-7	20	23	92
9	33	Rule Adher.	1-7	25	25	97
3	34.	Local Aid	1-7	21	24	93
Educ	35.	Federal Aid	1-7	22	24	94
	36.	Ed. Planning	1-7	23	24	95
ca 1	37.	Sex ⁵	1-7	9	21	81
	38.	Ed. Contact Var.	1 - 7	1 1	21	83
La	39.	Marital Status	1-7	12	22	84
Categori Data	40.	Religion - Affil.	1 - 7	13	22	85
<u>å</u>	41.	HP Category	1 - 7	26	25	98
ان	42.	HP Gain	1-7	30	26	102
	43.	Nation (30)	1-7	1,2	same	same
Identity Data	44.	Group (adm.)	1-7	3,4	same	same
ta i	45.	Subject no.	1 - 7	5-7	same	same
de la	46.	Card.no.	1 - 7	8	same	8 ame
147	4 7.	Group ⁵ (Occup)	1-7	80	same	same
<u> </u>	7/.	- 0- 00 (000 dp)			30,16	oduc

 $^{1}\textsc{Based}$ on ABS-MR 3968 edition $^{2}\textsc{Not}$ used in \underline{r} analysis $^{3}\textsc{K}\textsc{=}\textsc{K}\textsc{nowledge}$

4V=Value

⁵female = 1; male = 2 ⁶Groups (Col.80) 4=MMR (mothers) 8=MNR (mothers)

⁷Totals omitted but numbering system retained since computer program already written.



ABS-MR: Basic Variable List by IBM Card and Column Kentucky (Cessna) Study

Sample 7

		1		<u> </u>				· <u> </u>
	V	/ariable ^l	Card	Column		Page	Item	
	1.	Stereotype	1	36,38 alter to	74	2-4	1,3 alt	er to
de 1	2.	Normative	2	36,38 alter to	74	5 - 7	41,43	79
titude ontent	3.	Moral Evaluation	3	36,38 alter to		8-11	81,83	119
ri on	4.	Hypothetical	4	36,38 alter to		12-14	121,123	159
Attitude Content	5.	Feeling	5	36,38 alter to		15-17	1,3	3 9
	6.	Action7	6	36,38 alter to	74	18-20	41,43	79
ئد ہ	8.	Stereotype	1	37,39 alter to	75	2-4	2,4	40
Attitude Intensit	9.	Normative	2	37,39 alter to	75	5 - 7	4 2,4 4	80
tude		.Moral Evaluation	3	37,39 alter to	75	8-11	82 , 8 4	1 2 0
t i.	11.	Hypothetical	4	37,39 alter to	75	12-14	122,124	1 6 0
Att	12.	Feeling	5	37,39 alter to	75	15 - 17	2,4	40
l	13.	Action	6	37,39 alter to	75	1 8- 20	42,44	80
4	15.	Efficacy - Cont.	7	36,38 alter to	52	28,29	107,109	123
<u> </u>	16.	Efficacy - Int.	7	37,39 alter to	53	28,29	108,110	124
К3	17.	MR Knowledge	7	54-69		30-32	.125-140	
	18.	HP Amount	1-7	28		26	100	
C t	19.	HP Avoid	1-7	29		26	101	
Contact	20.	HP Income	1-7	31		26	103	
e c	21.	HP Alter.	1-7	32		27	104	
0	22.	MR Amount	1 -7	33		27	10 5	
[-•—-	23.	MR Enjoy	<u> </u>	34		27	106	
۲a	24.	Age	1-7	10		21	82	
og ic	25.	Educ. Amount	1-7	15		21	87	
Demcgraphic	26.	Religion Impor.	1-7	14		22	86	
	27.	Religion Adher	1-7			24	96	
	28.	Self Change	1-7	16		22	88	
Change entation	29.	Child Rearing	1-7	17		23	89	
an	30.	Birth Control	1-7	18		23	90	
ch en	31.	Automation	1-7	19		23	91	
1 71	32.	Political Lead.	1-7	20		23	92	
-	33.	Rule Adher.	1-7	25		25	9 7	
Educ.	34.	Local Aid	1 - 7	21		24	93	
de l	35.	Federal Aid	1-7	22		24	94	
ш	36.	Ed. Planning	1-7	23		24	95	
ical	37.	Sex	1 - 7	9		21	81	
ic	38.	Ed. Contact Var.	1-7	11		21	83	
a	39.	Marital Status	1-7	12		22	84	
eg at	39. 40. 41.	Religion - Affil.	1-7	13		22	85	
Categori Data ²	41.	HP Category	1-7	26		2 5	9 8	
\vdash	42.	HP Gain	1-7	30		26	102	
2	43.	Nation (02)	1-7	1,2		none	none	
it	44. 45	Group (adm.)	1-7	3,4		none	none	
entil Data	45. 46.	Subject no.	1-7	5 - 7		none	none	
	40. 47.	Card no.	1-7	8		none	none	
	4 /.	Group ⁶ (Occup)	1-7	80		none	none	

 $^{1}\mathrm{Based}$ on ABS-MR 3968 edition $^{2}\mathrm{Not}$ used in r analysis $^{3}\mathrm{K=Knowledge}$ $^{4}\mathrm{V=Value}$

2=RST 5 =MAN

7Total omitted but numbering system retained since computer program already written.



ABS-MR: Basic Variable List by IBM Card and Column Michigan (Green) Study

Sample 8

	v	ariable ^l	Card	Column	Page	Item
	1.	Stereotype	1	36,38 alter to 74	2-4	1,3 alter to 39
اج با	2.	Normative	2	36,38 alter to 74		41,43 79
ie i	3.	Moral Evaluation	3	36,38 alter to 74		81,83
i i	4.	Hypothetical	4	36,38 alter to 74		121,123 159
Attitude Content	5.	Feeling,	5	36,38 alter to 74		1,3 39
⁴	6.	Action7	6	36,38 alter to 74		41,43 79
		Stereotype	1	37,39 alter to 75		2,4 40
Attitude Intensity	9.	Normative	2	37,39 alter to 75		42,44 80
ud is i	10.	Moral Evaluation	3	37,39 alter to 75		82,84 120
iten	11.	Hypothetical	4	37,39 alter to 75		122,124 160
n tt	12.	Feeling	5	37,39 alter to 75		2,4 40
A H	13.	Action	6	37,39 alter to 75		42,44 80
	15.	Efficacy - Cont.	7	36,38 alter to 52		107,109 123
7	16.	Efficacy - Int.	7	37,39 alter to 53		108,110124
K3	17.	MR Knowledge	7	54-69	30-32	125-140
	18.	HP Amount	1-7	28	26	100
Contact	19.	HP Avoid	1-7	29	26	101
ta	20.	HP Income	1-7	31	26	103
5	21.	HP Alter.	1-7	32	27	104
10	22.	MR Amount	1 - 7	33 :	27	105
1	23.	MR Enjoy	1-7	34	27	106
40	24	Age	1-7	10	21	82
Demogra phic	25	Educ. Amount	1 - 7	15	21	87
E d	26	Religion Impor.	1-7	14	22	86
De	127.	Religion Adher.	1-7	24	24	96
E	28.	Self Change	1-7	16	22	88
1 104	29.	Child Rearing	1-7	17	23	89
ነ አስ መ	30.	Birth Control	1 - 7	18	23	90
Change	31.	Automation	1-7	19	23	91
Chang	32.	Political Lead.	1-7	20	23	92
9	33.	Rule Adher.	1-7	25	25	97
1	34.	Local Aid	1-7	21	24	93
S	35,	Federal Aid	1-7	22	24	94
Eq	36.	Ed. Planning	1-7	23	24	95
	37.	Sex5	1-7	9	21	81
cal Educ.	38.	Ed. Contact Var.	1-7	11	21	83
1.4.67	1	Marital Status	1-7	12	22	84
80 at	40.	Religion - Affil.	1-7	13	22	85
la te	41.	HP Category	1-7	26	25	9 8
Categor Data	42.	HP Gain	1-7	30	26	102
	43.	Nation (62)	1-7	1,2		
ity	44.	Group (adm.)	1-7	3,4	none	none
t i	45.	Subject no.	1-7	5 - 7	none	none
Identity Data	46.	Card no.	1-7	8	none	none
15	1	Group (Occup.)	1-7	80	none	none
<u> </u>	47	Group* (Occup.)	1-/	90	none	none

¹Based on ABS-MR 3968 edition ²Not used in <u>r</u> analysis ³K=Knowledge

4v=Value

5female = 1; male = 2
6Groups (Col. 80)
 4=PMR 8=PNR

Totals omitted but numbering sytem retained since computer program already written.



260 ABS-MR: Basic Variable List by IBM Card and Column Texas (Morin) Study

Variable Card Column Page Item							
3		V	aríable ^l	Card	Column	Page	Item
3. Feeling 5 36,38 alter to 74 15-17 1,3 39			Stereotype				
3. Feeling 5 36,38 alter to 74 15-17 1,3 39	d d	2.					
3. Feeling 5 36,38 alter to 74 15-17 1,3 39	t c	3.	Moral Evaluation				
3. Feeling 5 36,38 alter to 74 15-17 1,3 39	1 2	4.	Pypochetical	4	36,38 alter to 74	12-14	
Secretary Secr	A A	5.			36,38 alter to 74	15-17	1,3 39
3. Action			Action7				
3. Action		8.			37,39 alter to 75	2-4	
3. Action	it de	9,					
3. Action	t us	10.	Moral Evaluation				82,84 120
3. Action	t ti	11.					
3. Action	무무	12.	Feeling		37,39 alter to 75	15-17	2 ,4 40
S		.3.					
18	4	15.			36,38 alter to 52	28,29	107,109 123
18. HP Amount	>	16.	Efficacy - Int.		37,39 alter to 53	28,29	10 <u>8</u> ,110 124
19. HP Avoid 1-7 29 26 101			MR Knowledge	7	54-69	30-32	125-140
22. MR Amount 1-7 33 27 105 23. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 26. Religion Impor 1-7 14 22 86 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 18 23 90 20. 31. Automation 1-7 19 23 91 31. Automation 1-7 19 23 91 32. Political Lead. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 25 25 97 34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex ⁵ 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 AT Mation (04) 1-7 1,2 none none 100e 44. Group (adm.) 1-7 3,4 none none 100e 45. Subject no. 1-7 5-7 none none 100e	1 1	18.		1-7	28	26	100
22. MR Amount 1-7 33 27 105 23. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 26. Religion Impor 1-7 14 22 86 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 18 23 90 20. 31. Automation 1-7 19 23 91 31. Automation 1-7 19 23 91 32. Political Lead. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 25 25 97 34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex ⁵ 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 AT Mation (04) 1-7 1,2 none none 100e 44. Group (adm.) 1-7 3,4 none none 100e 45. Subject no. 1-7 5-7 none none 100e	ct	19.	HP Avoi d	1-7	29	26	101
22. MR Amount 1-7 33 27 105 23. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 26. Religion Impor 1-7 14 22 86 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 18 23 90 20. 31. Automation 1-7 19 23 91 31. Automation 1-7 19 23 91 32. Political Lead. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 25 25 97 34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex ⁵ 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 AT Mation (04) 1-7 1,2 none none 100e 44. Group (adm.) 1-7 3,4 none none 100e 45. Subject no. 1-7 5-7 none none 100e	t a	20.	HP Income	1-7	31	26	103
22. MR Amount 1-7 33 27 105 23. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 26. Religion Impor 1-7 14 22 86 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 18 23 90 20. 31. Automation 1-7 19 23 91 31. Automation 1-7 19 23 91 32. Political Lead. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 25 25 97 34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex ⁵ 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 AT Mation (04) 1-7 1,2 none none 100e 44. Group (adm.) 1-7 3,4 none none 100e 45. Subject no. 1-7 5-7 none none 100e	5	21.	HP Alter.	1-7	32	27	104
	ပ	22.	MR Amount	1-7	33	27	105
		23,	MR Enjoy	1-7	34	27	106
28. Self Change	8	24.	Age	1-7	10	21	82
28. Self Change	gr	25.	Educ. Amount	1-7	15	21	87
28. Self Change	일 됩	26.	Religion Impor	1-7	14	22	86
28. Self Change	ا مًا	27.	Religion Adher.	1-7	24	24	96
S 33, Rule Adher. 1-7 25 25 97	E	28.	Self Change	1-7			88
S 33, Rule Adher. 1-7 25 25 97	9 3	29.	Child Rearing	1-7	17	23	89
S 33, Rule Adher. 1-7 25 25 97	at	30.	Birth Control	1-7	18	23	
S 33, Rule Adher. 1-7 25 25 97	1 a 5	31.	Automation	1-7	19	23	91
S 33, Rule Adher. 1-7 25 25 97	15. c	32.	Political Lead,	1-7	20	23	92
34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102	5	33,	Rule Adher.	1-7	25		97
37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 30. Mation (04) 1-7 1,2 none none 1-7 3,4 none			Local Aid	1~7			93
37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 30. Mation (04) 1-7 1,2 none none 1-7 3,4	du d	35.	F e deral Aid	1-7	22	24	94
38. Ed. Contact var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 27 43. Nation (04) 1-7 1,2 none none 1-7 3,4 none none 1-7 45. Subject no. 1-7 5-7 none none 1-7 8 none none 1-7		36.		1-7	23	24	95
38. Ed. Contact var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 27 43. Nation (04) 1-7 1,2 none none 1-7 3,4 none none 1-7 45. Subject no. 1-7 5-7 none none 1-7 8 none none 1-7	a		Sex ⁵	1-7		21	
39. Marital Status 1-7 12 22 84	1.40	38	Ed. Contact Var.				
41. HP Category	la tal	39.					
41. HP Category	e B	40.					
42 HP Gain 1-7 30 26 102 102 103 104 1-7 1,2 100	at						
3. Nation (04) 1-7 1,2 none none			HP Gain				
44. Group (adm.) 1-7 3,4 none none 45. Subject no. 1-7 5-7 none none 46. Card no. 1-7 8 none none	1						
45. Subject no. 1-7 5-7 none none 1-7 8 none none 1-7 8 none none 1-7 8 none none 1-7 80 none	a !!						
ψ	at it						
H 47, Group6 (Occup.) 1-7 80 none none	lo de l						

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^{\mathrm{1}}\mathrm{Based} on ABS-MR 3968 edition
2Not used in r analysis
3K=Knowledge
4V=Value
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5female = 1; male = 2 6Groups (Col. 80)

1=SER

2=RST

4 = PMR

8=PNR



⁷ Totals omitted but numbering system retained since computer program already writ**t**en.

ABS-MR: Basic Variable List by IBM Card and Column School Diagnostican Study

1. Stereotype		v	ariable 1	Card	Column	Page	Item
3		Γ1.	Stereotype	1	36.38 alter to 74	2-4	1.3 alter to 39
6. Action	Je Je	2	-				
6. Action) je	3			•		
6. Action	l ii g	4			•		
6. Action	T S	5					
8	~						
9. Normative 2 37,39 alter to 75 5-7 42,44 80 10. Moral Evaluation 3 3.39 alter to 75 15-11 82,84 120 11. Hypothetical 4 37,39 alter to 75 12-14 122,124 160 12. Feeling 5 37,39 alter to 75 15-17 2.4 40 13. Action 6 37,30 alter to 75 15-17 2.4 40 13. Action 6 37,30 alter to 75 18-20 42,44 80 15. Efficacy - Cont. 7 36,38 alter to 52 28,29 107,109 123 16. Efficacy - Int. 7 37,39 alter to 53 28,29 103,110 124 17. MR Knowledge 7 54-69 30-32 125-140 18. HP Amount 1-7 28 26 100 19. HP Avoid 1-7 29 26 101 20. HP Income 1-7 31 26 103 21. HP Alter. 1-7 32 27 104 22. MR Amount 1-7 33 27 105 23. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 26. Color Religion Import 1-7 14 22 86 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Collid Rearing 1-7 17 23 89 29. Collid Rearing 1-7 17 23 39 29. Collid Rearing 1-7 17 23 39 29. Collid Rearing 1-7 17 23 39 29. Self Change 1-7 19 23 31 31. Automation 1-7 19 23 31 32. Political Leed. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 22 24 94 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Roligion - Affil. 1-7 12 22 84 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 7-7 7-7 7-7 7-7 44. Group(adm.) 1-7 3,4 7-7 45. Subject no. 1-7 5-7 7-7 10. The state of the state							
3	2. 2.	9.					,
13. Action8	b z	10.					
13. Action8	n t	11.					
13. Action8	1 1 2	12.					
15. Efficacy - Cont. 7 36,38 alter to 52 28,29 107,109 123 16. Efficacy - Int. 7 37,39 alter to 53 28,29 103,110 124 K3 17. MR Knowledge 7 54-69 30-32 125-140 18. HP Amount 1-7 28 26 100 19. HP Avoid 1-7 29 26 101 20. HP Income 1-7 31 26 103 52 1. HP Alter. 1-7 32 27 104 22. MR Amount 1-7 33 27 105 23. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 25. Educ. Amount 1-7 15 21 87 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 90 29. Child Rearing 1-7 17 23 91 29. Child Rearing 1-7 19 23 91 20. Altomation 1-7 19 23 91 20. Altomation 1-7 20 23 92 20. Altomation 1-7 20 20 23 92 20. Altomation 1-7 20 20 23 92 20. Altomation 1-7 20 20 20 20 20. Altomation 1-7 10 20 20 20. Altomation 1-7 10 20	I A	13.		6			
16. Efficacy - Int. 7 37,39 alter to 53 28,29 103,110 124 17. MR Knowledge 7 54-69 30-32 125-140 18. MP Amount 1-7 28 26 100 19. MP Avoid 1-7 29 26 101 19. MP Avoid 1-7 29 26 101 19. MP Avoid 1-7 31 26 103 105 22. MR Amount 1-7 32 27 104 105 22. MR Amount 1-7 33 27 105 23. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 86 25 26 25 26 26 27 26 27 26 27 27							
R3 17 MR Knowledge 7	3						
18. HP Amount	_V 3	17					
19. HP Avoid 1-7 29 26 101							
22. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 26. Religion Impor. 1-7 14 22 86 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 20. 30. Birth Control 1-7 18 23 90 21. 31. Automation 1-7 19 23 91 32. Political Leed. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 20 23 92 35. Federal Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none none 15 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	14						
22. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 26. Religion Impor. 1-7 14 22 86 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 20. 30. Birth Control 1-7 18 23 90 21. 31. Automation 1-7 19 23 91 32. Political Leed. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 20 23 92 35. Federal Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none none 15 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	30	i					
22. MR Enjoy 1-7 34 27 106 24. Age 1-7 10 21 82 25. Educ. Amount 1-7 15 21 87 26. Religion Impor. 1-7 14 22 86 27. Religion Adher. 1-7 24 24 96 28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89 29. Child Rearing 1-7 17 23 89 20. 30. Birth Control 1-7 18 23 90 21. 31. Automation 1-7 19 23 91 32. Political Leed. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 20 23 92 35. Federal Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none none 15 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ğ	1					
23. MR Enjoy	ပိ						
24. Age		1					
Social Color Soci	1						
28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89	Sr. S	25					
28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89	00 45	26					
28. Self Change 1-7 16 22 88 29. Child Rearing 1-7 17 23 89)eu	27					
29. Child Rearing 1-7 17 23 89							
Sep 30. Birth Control 1-7 18 23 90 31. Automation 1-7 19 23 91 32. Political Lead. 1-7 20 23 92 33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 5 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none 44. Group(adm.) 1-7 3,4 none none 45. Subject no. 1-7 5-7 none none 46. Card no. 1-7 8 none none 15. Subject no. 1-7 12 12 12 12 12 12 12 1	2	29					
33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 39. Marital Status 1-7 13 22 85 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none 44. Group(adm.) 1-7 3,4 none none 45. Subject no. 1-7 5-7 none none 46. Card no. 1-7 8 none none 47. None 1-7 1	356 37	30.	_				
33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 39. Marital Status 1-7 13 22 85 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none 44. Group(adm.) 1-7 3,4 none none 45. Subject no. 1-7 5-7 none none 46. Card no. 1-7 8 none none 47. None 1-7 1	ומנ הלו	31					
33. Rule Adher. 1-7 25 25 97 34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 5 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 39. Marital Status 1-7 13 22 85 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none 44. Group(adm.) 1-7 3,4 none none 45. Subject no. 1-7 5-7 none none 46. Card no. 1-7 8 none none 47. Subject no. 1-7 8 none none 48. Religion 1-7 1,2 none none 49. Religion 1-7 1,2 none none 40. Religion 1-7 1,2 none none 44. Group(adm.) 1-7 1,2 none none 45. Subject no. 1-7 5-7 none none 46. Card no. 1-7 8 none none 47. Religion 1-7 1-7 1-7 1-7 1-7 48. Religion 1-7 1-7 1-7 1-7 49. Religion 1-7 1-7 1-7 40. Religion 1-7 1-7 1-7 41. Religion 1-7 1-7 1-7 42. Religion 1-7 1-7 1-7 43. Nation (01) 1-7 1,2 none none 45. Subject no. 1-7 1-7 1-7 46. Card no. 1-7 1-7 1-7 47. Religion 1-7 1-7 1-7 48. Religion 1-7 1-7 49. Religion 1-7 1-7 40. Religion 1-7 1-7 41. Religion 1-7 1-7 42. Religion 1-7 1-7 43. Religion 1-7 1-7 44. Religion 1-7 1-7 45. Subject no. 1-7 1-7 46. Card no. 1-7 1-7 47. Religion 1-7 1-7 48. Religion 1-7 1-7 49. Religion 1-7 1-7 49. Religion 1-7 1-7 49. Religion 1-7 1-7 40. Religion 1-7 1-7 41. Religion 1-7 1-7 42. Religion 1-7 1-7 43. Religion 1-7 1-7 44. Religion 1-7 1-7 45. Religion 1-7 1-7 46. Religion 1-7 1-7 47. Religion 1-7 1-7 48. Religion 1-7 1-7 49. Religion 1-7 1-7 49. Religion 1-7	ie C	32					
34. Local Aid 1-7 21 24 93 35. Federal Aid 1-7 22 24 94 36. Ed. Planning 1-7 23 24 95 37. Sex 37. Sex 1-7 9 21 81 81 83 88. Ed. Contact Var. 1-7 11 21 83 83 84 84 85 85 85 85 85 85	Ä	33.					
\$\frac{1}{3}\$ \$35\$. Federal Aid \$1-7 \$22 \$24 \$94 \$36\$. Ed. Planning \$1-7 \$23 \$24 \$95 \$37\$. Sex\$ \$1-7 \$9 \$21 \$81 \$38\$. Ed. Contact Var. \$1-7 \$11 \$21 \$83 \$39\$. Marital Status \$1-7 \$12 \$22 \$84 \$39\$. Marital Status \$1-7 \$13 \$22 \$85 \$40\$. Religion - Affil. \$1-7 \$13 \$22 \$85 \$41\$. HP Category \$1-7 \$26 \$25 \$98 \$42\$. HP Gain \$1-7 \$30 \$26 \$102 \$102 \$102 \$103							
1 37 Sex 1-7 9 21 81 38 Ed. Contact Var. 1-7 11 21 83 39 Marital Status 1-7 12 22 84 39 40 Religion - Affil. 1-7 13 22 85 41 HP Category 1-7 26 25 98 42 HP Gain 1-7 30 26 102 43 Nation (01) 1-7 1,2 none none 1-7 3,4 none none 1-7 44 Group (adm.) 1-7 3,4 none none 1-7 45 Subject no. 1-7 5-7 none none none 1-7 46 Card no. 1-7 8 none none none 1-7	ř						
37. Sex 1-7 9 21 81 38. Ed. Contact Var. 1-7 11 21. 83 39. Marital Status 1-7 12 22 84 85 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none 17 18 44. Group(adm.) 1-7 3,4 none none 15 15 45. Subject no. 1-7 5-7 none none none 1-7 46. Card no. 1-7 8 none none none 1-7 8 none none none 1-7 8 none none 1-7 1-	ы	1					
38. Ed. Contact Var. 1-7 11 21 83 39. Marital Status 1-7 12 22 84 40. Religion - Affil. 1-7 13 22 85 41. HP Category 1-7 26 25 98 42. HP Gain 1-7 30 26 102 43. Nation (01) 1-7 1,2 none none 44. Group(adm.) 1-7 3,4 none none 45. Subject no. 1-7 5-7 none none 46. Card no. 1-7 8 none none							
0 39. Marital Status 1-7 12 22 84 240. Religion - Affil. 1-7 13 22 85 25 98 25 98 26 102 26 102 27 27 28 28 28 28 28 2	ပ္သ	38					
43. Nation (01) 1-7 1,2 none none	La.	39.					
43. Nation (01) 1-7 1,2 none none	e g	40.					
43. Nation (01) 1-7 1,2 none none	ati	41.					
43. Nation (01)	Ú	42.					
1-7 3,4 none none 45. Subject no. 1-7 5-7 none none 50 46. Card no. 1-7 8 none none							
1-7 5-7 none none 1-7 8 none none 1-7 8 none none 1-7 8 none none none 1-7 8 none none none	t,	44.					
1-7 8 none none none 1-7 80 none none	ti ∄	45.					
147. Group (Occup. 6) 1-7 80 none none	en	46.					
	PI	47.	Group (Occup.6)	1-7	80	none	none

 $^{1}\text{Based}$ on ABS-MR 3968 edition. ^{2}Not used in \underline{r} analysis

 $\frac{5}{6}$ female = 1; male = 2

6_{Groups} (Col. 80)

9=school diagnosticans

7Group (Col's. 3,4)

Adm.=9C

Totals omitted but numbering system retained since computer program already written.



³K≈Knowledge

⁴V=Value

ABS-MR: Basic Variable List by IBM Card and Column ED 200 Study

	Variable ¹		Card	Column	Page	Item	
	1.	Stereotype	1	36,38 alter to 74	2-4	1,3 alter to 39	
Attitude	2.	Normative	2	36,38 alter to 74		41,43 79	
titude	3.	Moral Evaluation	3	36,38 alter to 74		81,83 119	
t i	4.	Hypothetical	4	36,38 alter to 74		121,123 159	
At C	15.	Feeling	5	36,38 alter to 74		1,3 39	
	6.	Action8	6	36,38 alter to 74		41,43 79	
t c	8.	Stereotype	1	37,39 alter to 75		2,4 40	
de	1 ^	Normative	2	37,3 9 alter to 75	5-7	42,44 80	
tud	9. 10.	Moral Evaluation	3	37,39 alter to 75		82,84 120	
t i	11. 12.	Hypothetical	4	37,39 alter to 75		122,124 160	
Atı	12.	Feeling ₈	5	37,39 alter to 75		2,4 40	
7	13.	Action 8	6	37,39 alter to 75		42,44 80	
-	15	Efricacy - Cont.	7	36,38 alter to 52		107,109 123	
3	16.	Efficacy - Int.	7	37,39 alter to 53		108,110 124	
K^3	17.	MR Knowledge	7	54-69	30-32	125-140	
i	18.	HP Amount	1-7	28	26	100	
Contact	19.	HP Avoid	1-7	29	26	101	
	20.	HP Income	1-7	31	26	103	
Ö	21.	HP Alter.	1-7	32	27	104	
	22	MR Amount	1-7	33	27	105	
1	23.	MR Enjoy	1~7	34	27	106	
rg T	24.	Age	1-7	10	21	82	
C ST	25	Educ. Amount	1-7	15	21	87	
emogra	25. 26.	Religion Impor.	1-7	14	22		
] e	27.	Religion Adher.	1-7	24		86 96	
		Self Change	1-7	16	24	88	
ŏ	28. 29.	Child Rearing	1-7	17	23		
ige iti	30.	Birth Control	1-7	18		89	
ar	31	Automation			23	90	
Change	31. 32	Political Lead.	1 - 7 1-7	19	23	91	
Ţ	33.	Rule Adher.		20	23	92	
Educ.	34.	Local Aid	1+7 1+7	25 21	25	97	
	35.	Federal	1-7		24	93	
	36.		1-7	22 23	24	94	
- G	37.	Sex ⁵	1-7		24	95	
ica 2		Ed. Contact Var.		9	21	81	
a2			1 - 7	11	21	83	
80 at	39. 40.	Marital Status Religion - Affil.	1-7	12	22	84	
Categor Data	41.	HP Category	1-7	13	22	85	
ပ္မ	42.	HP Gain	1-7	26	25	98	
 	43.		1-7	30	26	102	
Identity Data	44.	Nation (01)	1-7	1,2	none	none	
		Group (adm.) ⁷	1-7	3,4	none	none	
		Subject no.	1-7	5-7	none	notie	
	, -	Card no.	1-7	8	none	none	
├	<u>47.</u>	Group no. (occup)6	1-7	80	none	none	

¹Based on ABS-MR 3968 edition ²Not used in <u>r</u> analysis ³K=Knowledge

5female = 1; male = 2 6Groups (Col. 80) 7=student

7adm. group (col's. 3,4)

1-15 (class sessions)

8 Totals omitted but numbering system retained since computer program already written.



³K=Knowledge 4V=Value

263 ABS-MR: Basic Variable List by IBM Card and Column Medical Class Study

Sample 12

1. Stereotype 1 2. Normative 2 3. Moral Evaluation 3 4. Hypothetical 4 5. Feeling 5	36,38 alter to 36,38 alter to	74 2-4	ı
Normative 2 3. Moral Evaluation 3		1 /4 2 -4	1,3 alter to 39
3. Moral Evaluation 3			41,43 79
	36,38 alter to		81,83 119
고등 4. Hypothetical 4	36,38 alter to		121,123 159
5. Feeling 5	36,38 alter to		1,3
l 6 Action8 6	36,38 alter to		41,43 79
8. Stereotype 1 9. Normative 2 3.10. Moral Evaluation 3 11. Hypothetical 4 12. Feeling 5	37,39 alter to		2,4 40
9. Normative 2	37,39 alter to		42,44 80
3 10. Moral Evaluation 3	37,39 alter to		82,84 120
[고열11. Hypothetical 4	37,39 alter to		122,124 160
Hill. Feeling 5	37,39 alter to		2,4 40
13. Action8 6	37,39 alter to		42,44 80
15. Efficacy - Cont. 7	36,38 alter to		107,109 123
16. Efficacy - Int. 7	37,39 ælter to		108,110 124
K3 17. MR Knowledge 7	54-69	30-32	125-140
18. HP Amount 1-7		26	100
19. HP Avoid 1-7 20. HP Income 1-7 0 21. HP Alter. 1-7		26	101
20. HP Income 1-7		26	103
5 21. HP Alter. 1-7		27	104
22. MR Amount 1-7		27	105
23. MR Enjoy 1-7		27	106
		21	82
25. Educ. Amount 1-7		21	87
26. Religion Impor 1-7		22	86
1 0 127 Palata A 19		24	96
27. Religion Adner. 1-7 28. Self Change 1-7 29. Child Rearing 1-7 30. Birth Control 1-7 31. Automation 1-7 32. Political Lead. 1-7 33. Rule Adher. 1-7 34. 1-7 34. 1-7 35. 1-7		22	88
ψ. 29. Child Rearing 1-7		23	89
g 30. Birth Control 1-7		23	90
E 31. Automation 1-7		23	91
32. Political Lead. 1-7		23	92
33. Rule Adher. 1-7		25	97
: 34. Local Aid 1-7		24	93
34. Local Aid 1-7 35. Federal Aid 1-7 日 36. Ed. Planning 1-7		24	94
四 36. Ed. Planning 1-7		24	95
		21	81
38 Ed Contact Var 1-7		21	83
		22	84
w w 40. Religion - Afril. 1-7		22	85
41. HP Category 1-7		25	98
39. Marital Status 1-7 39. Marital Status 1-7 40. Religion - Afiil. 1-7 41. HP Category 1-7 42. HP Gain 1-7		26	102
1/3 Notion (01) 1.7		none	none
44. Group (adm.) 1-7 45. Subject no. 1-7 46. Card no. 1-7 47. Group (occup6) 1-7		none	none
1-7 45. Subject no. 1-7	•	none	none
트리 46. Card no. 1-7		none	none
47. Group (occup6) 1-7		none	none

Based on ABS-MR 3968 edition.

5female = 1; male = 2
6Group (Col. 80)

7=students

7Group (Col. 3,4)

written.

16=class no. $8_{
m TOTALS}$ omitted but numbering system retained since computer program already



²Not used in r analysis

³K=Knowledge

⁴V=Value

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