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SOME DISCRIMINATIVE FACTORS IN PEER ACCEPTANCE AMONG MALE JUVENILE DELINQUENTS IN A TRAINING SCHOOL SITUATION

Thesis for the Degree of M. A.
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SOME DISCRIMINATIVE FACTORS IN PEER ACCEPTANCE AMONG MALE JUVENILE DELINQUENTS IN A TRAINING SCHOOL SITUATION

by

Warren Garst Ballachey

A THES IS

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SOME DISCRIMINATIVE FACTORS IN PEER ACCEPTANCE AMONG MALE JUVENILE DELIN-QUENTS IN A TRAINING SCHOOL SITUATION

INTRODUCTION

A survey of the literature on juvenile delinquency reveals that a great many studies have been made for the purpose of differentiating between nermal and delinquent populations. There have been relatively few investigations, however, which have attempted to identify those factors which differentiate one type of delinquent from another.

1t is commonly recognized by all authorities in the field that delinquency is a legal term and does not (2) represent either a sociological or a psychological entity. Since delinquents have been classified on a legal basis the practice has been to segregate them from so-called normals without regard to the specific social behavior exhibited by the different individuals classified as delinquent.

E. H. Sutherland says:

"Criminal behavior is a part of human behavior, has much in common with non-criminal behavior, and must be explained within the same general framework as any other human behavior."

Any intelligent attempt to provide individual treatment for juvenile delinquents, whether in an institutional setting or not, must be based on an adequate differential diagnosis.

⁽¹⁾ Garrison, K. C., Psychology of Adolescence, Prentice-Hall and Co., New York, 1946. p.p. 201 f.f.

⁽²⁾ Karpman, Ben, "Crime and Adolescence", Mental Hygiene, 1937, 21, p. 390.
(5) Wiers, Paul, Economic Factors in Michigan Delinquency, Columbia University

Press, New Yerk, 1944, p. 1.

(4) Sutherland, E. H., Principles of Criminology, J. B. Lippincott Co., New York, 1947, p. 5.

This thesis will be concerned with the study of one sociological characteristic of institutionalized male juvenile delinquents. This characteristic will be called peer-acceptance, by which is meant the extent to which an individual is chosen as being "liked-best" by his peers within the institution. The connotation of peer-acceptance in this study implies not leadership as outlined by Erech and Crutchfield, but rather sociological acceptance or non-acceptance as it relates to the individual boy in the cettage setting. That this sert of differential diagnesis can be profitably applied within an institutional setting has been shown by the recent work of Kates and (2)

Harrington on aggression.

patterns which appear to be an effert to seek acceptance with their peers, and thus it is felt that the value of this study lies in the possibility of identifying both the accepted and non-accepted individual and considering this variable in the individualized treatment program, that is, encouraging the individual who is predicted to be non-accepted to engage in activities which may increase his acceptance before the pattern of non-acceptance can become established in the institutionalized setting. Normally in the training school situation it is the first time the adolescent has been diverced from his family, and this physical separation leads to a great deal of emotional insecurity, both personal and social, for the newly admitted boy. Social acceptance at Boys Vecational School is made, to a greater or lesser degree, within a trying social setting for the individual.

⁽¹⁾ Krech, David, and Crutchfield, Richard S., Theory and Problems of Social Psychology, McGraw-nill Book Co., New York, 1948. p.p. 417 f.f.

⁽²⁾ Kates, Solis L., and Harrington, Robert W., "Authority rigure Perspective and Aggression in Delinquents", Journal of Genetic Psychology (in Press).

⁽³⁾ Jennings, Helen, Leadership and Isolation, Longman Green and Co., 1944, p.p. 145-165.

SUBJECTS

The subjects involved in this study are male juvenile delinquents ranging in age from twelve to seventeen years. For the purpose of this study, an individual is delinquent if he has been committed to Boys Vocational School. Lansing, michigan. Approximately 350 boys of various races and religions make up the population of this institution. The average boy upon admittance to the Institution ranks at the upper limits of the dull-normal range of intelligence, he is retarded appreximately two years academically, usually experienced familial or social rejection to a greater or lesser extent, he has been "processed" through the juvenile division of the probate court and he enters the School under compulsion. If then, upon admittance, er shortly thereafter, a boy could receive individual treatment within the institutional setting based upon his needs it would enhance the pessibility of his educational and social growth. If criteria could be established to differentiate between accepted and non-accepted boys and this factor taken into consideration in making assignments within the regular and extra curricular programs, needs of the accepted and non-accepted boys could be met. The boys live in cottage-type units within which the population range is approximately twenty to forty boys, and supervision is carried on seven days a week by a married couple. Within this cottage setting the boys have a varied program including work assignments, athletics on an intra-mural basis, extensive hobby-work programs and other group activities. It is primarily a closed

⁽¹⁾ Operated under the jurisdiction of the State Dept. of Social Welfare.

⁽²⁾ Taken from the Boys Vocational School Psychological Clinic's 1950 Annual Report.

social situation in which there are a tremendous number of inter-personal relationships. Except for daytime periods spent in school and/or on detail assignments the boys in any cottage live together as a group. It provides almost the perfect setting within which to study social acceptance or non-acceptance.

Two sub-groups, the accepted and non-accepted, within the cottage-life situation were investigated in this study. The accepted group consists of twenty individuals who were selected as being "liked-best" by their cottage mates for a period of three or more consecutive months. The second group consists of fifty-one individuals who were distinguished by the fact that for a period of three or more consecutive months they were never chosen as being "liked-best" by any one of their cottage mates. In this way it is believed (1) that two different sub-groups were identified for, as Jersild states:

"Among the various methods that can be used to study children's acceptance of one another are a number of so-called 'sociometric techniques'. These are relatively simple, and in many situations it is possible to apply them to obtain information that an investigator might put to practical use. In institutions where children spend all their time sociometric techniques have been used to find out whom the inmates would prefer as tablemates or as cottage mates, and the like. It is possible also to ask a variety of questions such as whom the youngster wishes to play with, go to a picnic with, or whom he would prefer to have as his best friend.

"It is also possible to get negative information by asking youngsters to name persons whom they would not especially care to have
as friends or as seat meates, or as study companions, and so on.
This negative approach has not been used as commonly as the positive approach since invidious information of this sort may be less
reliable, and, in many circumstances, there will be children who
will be embarrassed and reluctant to speak ill of their associates.
Some negative information can be inferred from the positive approach.
For example, if a child is not named by any one when children choose
their seat mates it is quite evident that he is not especially
popular."

⁽¹⁾ Jersild, Arthur T., Child Psychology, Prentice-Hall Inc., New York, 1950, p. 177.

METHODOLOGY

During the time a boy is in Boys Vocational School, a complete individual case history is prepared which coordinates both the previous socieeconomic history submitted by the Court and sociological and psychological
data obtained during the boy's residence in the Institution.

rrom January 1, 1949, to December 31, 1949, the Psychological Clinic of poys vocational School gathered sociometric data on the acceptance of individual boys within their cottages. Once each month every boy in the cottage was given a piece of paper and a pencil and asked to write down the names of the three boys in his cottage whom he liked-best; the resulting data were then compiled in graphic form by the use of sociograms. and by referring to these sociograms it was possible to determine the number of votes received by each individual in the cottage each month over a period of one year. It was also possible to determine the boys who received the most votes and those who received the least votes each month. Making use of these sociograms, the two groups -- accepted and non-accepted -- were isolated, according to the criteria previously indicated. Complete sociological and psychological data were made accessible to the writer. On the basis of sonney's study of popular and unpopular children, and Moreno and Jennings' work with over and underchosen girls in a training school setting, it was felt that these two groups were isolated as far as acceptance and non-acceptance were concerned.

⁽¹⁾ See Appendix A

⁽²⁾ sonney, Merl E., "Popular and Unpopular Children, A Sociometric Study" sociometry Monography, No. 9, seacon nouse, 1947, p. 1-10.

⁽³⁾ Moreno, J. L. and Jennings, Helen H., "Sociometric Control Studies of Grouping and Regrouping", Sociometry Monographs, No. 7, Beacon Couse, 1947, p. 3, f.f.

PROCEDURE

Each individual case history was investigated and the boy was classified in regard to the following thirty-three factors:

Residence
Urban
er
Other

This information was gained from the transfer summary and/er the Court papers. Those individuals who had been residents, during their formative years prior to commitment, of Detroit

and surrounding suburbs, Pontiac, Lansing, Jackson, Flint, Muskegon, Grand Rapids, Saginaw, Bay City, Port nuron, Kalamazoo, Battle Creek and Ionia were classified as urban. All other individuals were classified as "other" areas. The two groups, accepted and non-accepted, were compared on the basis of the proportion of each group coming from urban areas.

Tather Alive Information was obtained from the transfer summary and/or

Or
Deceased Court papers and the two groups were compared as to the proportion of rathers living.

Mother Alive Information was obtained from the transfer summary and/or

Deceased Court papers, and the two groups were compared as to the proportion of mothers living.

Parents
Divorced

Court papers, psychological and social service interview recordings. The two groups were again compared on the basis of the preportion of casis in which the parents were divorced.

Separated

Separated

Separated

divorced, they no longer live together as man and wife in

the same household. Information on this point was obtained from the transfer

summary and/or other records. The two groups were again compared on the basis

of the proportion of their members whose parents were separated.

Statements of social workers, psychologists or court workers

Alcoholic

Were taken as the criterion of alcoholism in the rather. Admittedly, this is not entirely defensible but it proved to be the only practical method of classification of this factor. The proportions of the two groups whose fathers were classified as alcoholic, according to this definition, were then compared.

Mother The procedure was the same in regard to this classification Alcoholic as employed in considering alcoholism in the father and the same limitations apply.

This information was not obtainable in all cases but when available the highest grade completed was taken as the level.

Numerical designations corresponding to the number of the grade from 0 to 16 were assigned and the means of the two groups compared.

This information was not obtainable in all cases but when available the highest grade completed was taken as the level and the same procedure followed as in rather's Education.

⁽¹⁾ Landis, Paul H., Population Problems, American Book Co., 1943, Chap. XVII, p.p. 317 f.f.

Number of Siblings

The total number of siblings at the time of commitment

was computed for each individual and the means of the two

groups compared. This information was obtained from the court records.

Sibling Position By sibling position is meant the serial position according

to age. Again the means of the two groups were compared.

This information was obtained from the court records.

Family Trouble

By this it is meant that one or more individuals in the im-

mediate family in addition to the boy, had been involved in

difficulty with the law even though not convicted. Again the mean number of such involvements was computed and the two groups compared.

Legitimacy of Birth The proportion of each group which had been born out of

wedlock was computed and the two groups compared on this

basis.

Foster

The proportion of each group which had been placed in a

foster home one or more times was computed and a comparison

made between the groups.

Other Institutions Information was obtained from transfer summaries and/or

court papers and the proportion of each group who had pre-

viously been committed to other institutions was computed and a comparison made on this basis.

Ago

The mean chronological age was found for each group and a

comparison made.

Height

The mean height in inches was determined for each group

and the two groups compared.

Weight

The mean weight in pounds for each group was computed and

the two groups compared.

Race
Only two races were involved in these two groups. The
two races involved were Negro and White and the groups
were compared on the basis of the proportion of Negroes included in each.

BVS
Disciplinary
Action

In this school for boys all major discipline is decided
upon and awarded by the Case Conference Committee, therefore, the mean number of appearances before this committee

was computed for each group and the two groups compared.

Runaways

and the groups compared on this basis.

Activities

It is possible for boys in this Institution to engage in

various extra-curricular activities such as: Boy Scouts,

Hi-Y, BVS Players and Camera Club, etc. The two groups were compared as to the mean number of activities engaged in.

BVS

The mean length of time spent in the School before release

was computed for each group and the two groups compared.

Only the current committment at the time of the sociometric measure was considered.

Times at

BVS

mittments to soys Vocational School. This information

was obtained from the master social service index card.

The mean number of cottage changes for any reason was computed for each group and a comparison made.

Number of _______ The mean number of detail changes for any reason was competail Changes ______ puted for each group and a comparison made.

Intelligence Each individual had been given an individually administred tered intelligence test by a competent psychologist using (1) (2) the Wechsler-sellevue Intelligence Scale, Form I or II.

At the time of admission to the Institution each individual Placement

had been administered the Stanford Achievement Test, Inter—

(3)

mediate Battery, various equivalent forms. The mean grade placement of

each group was computed and the groups compared.

Check (4)
List check List and the mean number of problems indicated was compared.

In this training school each boy is given a letter grade in each area of his program as well as an average grade; these grades range from U to A and are graded on the customary basis of O points for U, 1 point for D, 2 points for C, 3 points for B and 4 points for A. The mean average mark for each group was computed and the two groups compared.

At the time this study was written the boys included in this study were either on parole status or had been committed to an institution following their release from Boys Vocational School. This latter category includes those who had been recommitted to Boys Vocational School. The proportion of each group which at this time was institutionalized was computed and the two groups compared.

⁽¹⁾ See Appendix A

⁽²⁾ See Appendix B

⁽³⁾ See Appendix C

⁽⁴⁾ See Appendix D

^{(5) 16} points for parole consideration, 20 points for release on parole, A is excellent, B is above average, C is average, D is below average and U is unsatisfactory.

As can be noted, the accepted and the non-accepted groups were sometimes compared on the basis of mean scores and sometimes compared on the basis of proportions. Table I lists those factors which were compared on the basis of mean scores and Table II lists those factors compared on the basis of proportion.

STATISTICAL PROCEDURES

In each instance in which preliminary study revealed the possibility of significance of one of the thirty-three factors, the data was treated statistically on the basis of mean scores or on a proportional basis; using the tratio to test the significance between the means and the proportions. In other words the writer has attempted to determine if the thirty-three factors considered have any significance in terms of acceptance or non-acceptance for the two groups which have been isolated in this study. Appropriate graphs have been provided for each significant factor.

For those factors compared on the basis of mean scores the following statistical formulaes were used:

Mean equals the sum of X over N. $M = \frac{\xi X}{\Lambda}$

Standard deviation equals 1 over N times the square root of N times the (sum of X $= //N \cdot (2X^2) - 2X^2$ squared), minus (the sum of X)².

Standard error of the mean equals standard deviation over the square root of N $= \frac{6}{\sqrt{N-1}}$ minus 1.

Standard error of the difference between means equals the square root of the stan- Giffmi-m2 = Vomi + 6M2 dard error of mean 1 squared, plus the standard error of mean 2 squared.

To test the significance of the difference between means, the t ratio was utilized. This is obtained by the formula:

M1 minus M2 over standard error of the difference between means. $\frac{\mathcal{M}_1 - \mathcal{M}_2}{\mathcal{G}_{iff}}$

The degrees of freedom to be utilized is found by the formula: W minus 2; with sixty-nine degrees of freedom a t or 1.999 is required for the difference to be significant at the 5% level and a t of 2.659 is required for significance at the 1% level.

formulaes were used:

The standard error of a proportion equals the square root of p.q over N, where p equals the proportion of a sample having the characteristic under consideration and q equals 1 minus p.

The standard error of the difference between proportions is obtained by the formula:

The standard error of the difference of proportions equals the square root of the standard error of proportion 1 squared plus $4p^{\rho_1-\rho_2} = \sqrt{\rho_1^2 + \rho_2^2}$ the standard error of proportion 2 squared.

The t ratio to determine the significance of the difference between proportions is obtained by the formula:

t equals pl minus p2 over the standard error of the difference of proportions with degrees of freedom being determined by the formula n minus 2. $t = \frac{P_1 - P_2}{64 + P_1 - P_2}$

With sixty-nine degrees of freedom a t of 1.999 is required for the difference to be significant at the 5% level, and a t of 2.659 is required (1) for significance at the 1% level.

⁽¹⁾ Guilford, J. P., Fundamental Statistics in Psychology and Education, McGraw-Hill Book Co., Inc., New York, 1942 p.p. 156 f.f.

Hodgman, Charles D., Mathematical Tables from Handbook of Chemistry and Physics, Chemical Rubber Publishing Co., Cleveland, Ohio, 1941, p.74 f.f.

RESULTS AND INTERPRETATIONS

It can be seen from Tables I and II that by means of the previously described statistical methods, eleven of the thirty-three factors considered revealed significant differences between the accepted and non-accepted groups. These differences are also presented graphically for the eleven factors which proved significant.

Disciplinary
Action before

When the two groups are compared on the basis of appearance

before the discipline case conference, there is a difference

in means of 2.60, this difference being statistically significant at the 1% level of confidence with a tratio of 2.85. This difference could have arisen by chance in only one out of a hundred similar samplings and indicates that the accepted group present fewer major disciplinary problems than does the non-accepted group. See Graph I following:

 Mean: 2.9

Thus accepted boys were involved in less difficulty which called for official case conference action such as runaways, obscene language, destruction of property, fighting, stealing, etc. Jennings found the under-chosen subjects in her study to show "quarrelsome and irritable behavior" five times as often as average subjects, while the over-chosen subjects show only one/ third as great incidence of such behavior as the average chosen subjects. Such behavior is evidenced by the data in this study and certainly does not lead to acceptance.

⁽¹⁾ See Pages 34 and 35 respectively

⁽²⁾ Jennings, Helen Hall, Leadership and Isolation, Longmans, Green and Co., New York, 1943, p. 151.

Activities A comparison of the mean number of activities engaged in by these two groups reveals a difference of 1.24, resulting in a tratio of 6.63 which is statistically significant of at least the 1% level and indicates that this large difference could have arisen by chance in only one out of a hundred samplings. See Graph II following:

The activities factor shows the accepted group engaging in more extra curricular activities than the non-accepted. Acceptance within the School setting would seem to have a spreading effect; the accepted boy as judged by our criteria, feels freer to actively seek membership in extra-curricular activities.

A comparison of the two groups on the basis of the duration

at

BWS of institutionalization revealed a difference of 4.94 months

in favor of the accepted group. With a t ratio of 4.84 this difference is

statistically significant at beyond the 1% level. See Graph III following:

This finding indicates that the accepted group remains in the institution for a significantly shorter period than does the non-accepted. This was expected since longer residence results from either running away, or appearance before the Discipline Case Conference, and the Runaway Factor proved to be significant at the 5% level and the Discipline Case Conference at 1%.

Number of Detail Changes

When the two groups are compared on the basis of their mean number of detail changes, there is a difference of 3.70 in favor of the accepted group with a t ratio of 3.62, which is significant at the 1% level of confidence. See Graph IV following:

> Accepted XXXXXX Mean: 4.80

> Non-accepted XXXXXXXX Mean: 8.50

The fact that the accepted group has almost fifty percent fewer changes in assignments than the non-accepted group indicates that there is a significant difference in this aspect of behavior in favor of the accepted group. The accepted group demonstrated the ability to make a smoother adjustment to their training assignments than the non-accepted. The non-accepted boy seems to have more transitory interests, is more easily discouraged and experiences difficulty in finding a detail assignment which for him is purposeful.

Number of A comparison of the two groups on the basis of the mean Runaways number of runaways reveals a difference of 1.6 in favor of the accepted group with a t ratio of 2.08. This is statistically significant at the 5% level of confidence. See Graph V following:

> Accepted XXXXXXXXXXXX Mean: 1.1

The non-accepted group might be expected, because of at least passive rejection by their sociological environment, to have a higher incidence of withdrawal in the form of running away. The accepted group apparently has more satisfying personal relationships with a feeling of "belonging", and is not subjected to group rejection as is the case with the non-accepted.

Problem When the two groups are compared in regard to the mean number of problems indicated on the Mooney Problem Check List, there is a difference of 18.80 in favor of the accepted group. This gives a t ratio of 2.46 which is statistically significant at beyond the 5% level of confidence and indicates that a difference this large could have arisen by chance less than five times out of a hundred. See Graph VI following:

The fact that the non-accepted group underlined (43.40) almost twice as many personal and social problems than did the accepted group (24.60), seems to indicate that the non-accepted group has more fears and real or imagined problems than does the accepted group. These projected problems for the non-accepted group reflect their inadequaces, relate to and perhaps help explain, some of the difficulties the non-accepted group has in the areas of cottage changes, activities, detail changes and runaways.

Cottage

When the two groups are compared in regard to the mean number of cottage changes, there is a difference of .92 in favor of the accepted group with a t ratio of 3.28 which is significant at the 1% level.

See Graph VII following:

Experience seemed to suggest that accepted boys should tend to remain fixated socially and not evidence as much movement between groups, since by virtue of their acceptance they are enjoying satisfactory inter-personal.

relationships. On the other hand, we might expect more social movement on the part of the non-accepted. This supposition is found to hold true; social acceptance apparently creates feelings of personal adequacy for the one group -- accepted, and acts as a stabilizing influence, while non-acceptance has the opposite effect upon the non-accepted group.

When the two groups are compared on the basis of residence,

Other

Other

there is a difference of .23 in favor of the accepted group

with a t ratio of 2.87 which is significant at the 1% level

of confidence. See Graph VIII following:

Accepted XXXXXXXXX Mean: .95

Non-accepted XXXXXXX Mean: .72

The fact that the accepted group had a significantly higher proportion of urban youth may be the result, in some part, of this environment for as

(1)

Burgess and Locke state:

Urban areas present a more conflicting, emotional sphere of action in which the individual is likely to be a member of secondary groups rather than primary groups.

(2)

Also Landis states:

Competition and adjustment are more difficult and yet at the same time in the complexities of an urban environment the individual develops more social selves because of his participation in groups which advocate different values.

The urban youth considered in this study may have had opportunity for greater practice to develop the kind of large group adjustment social skills which may in part assist them in adjusting to the institutional setting.

⁽¹⁾ Burgess, Ernest W., and Locke, Harvey J., The Family, American Book Co., New York, 1945, p. 119 f.f.

⁽²⁾ Landis, Paul H., Adolescence and Youth, McGraw-Hill Book Co., Inc., New York and London, 1945. p.p. 126, 127.

The boys in the study from other than urban areas, which includes small towns, villages and farm areas, are by comparison, "subjected to different forms of social control and operate in fewer, though for the most part, pri(1)
(2)
mary groups". According to Redfield, "village and farm area cultures present a more stable group pattern, and in general, the culture maintains more consistent common standards, the family does not suffer as breakdown.

Mores and social customs are more strictly enforced." Thus it would seem that the boy who comes from other than urban areas probably feels inadequate within the social situation which confronts him in the cettage situation at Boys Vocational School because of the lack of participation in different social groups.

From Table 11 (page 35) it can be seen that 5% of the ac
Experience

cepted group had been placed in boarding homes while 68%

of the non-accepted had such experiences. With a t ratio of 3.37 this dif
ference is statistically significant at beyond the 1% level of confidence.

See Graph IX following:

Accepted XXXXXXXX Mean: .95
Non-accepted XXXXXXX Mean: .68

The most favorable circumstances for the development of a satisfactory parent-child relationship are those that may exist in the so-called normal home -- that is, one in which the household contains, without antagonism, man and wife with their own children. A well-rounded social personality is

⁽¹⁾ Landis, Paul H., Adolescence and Youth, McGraw-Hill Book Uo., New York, 1945. p. 119.

⁽²⁾ Redfield, Robert, The Folklore of Yucatan, University of Chicago Press, Chicago, 1946, p. 132 f.f.

dependent to a great extent upon familial training and environment.

(2)

The Gluecks found that 69.7% of a sample of 654 juvenile delinquents

(3)

had lived in foster homes. As Bell points out:

Children living under these conditions have fewer chances for adequate physical care, love, and counselling. The existence of intra-familial tensions and conflicts, which are also not unknown even in the normal home, affects the emotional security of the children.

It would seem, then, that the non-accepted group has suffered to a greater degree than the accepted from lack of parental control and social training.

The non-accepted boy has greater insecurity in dealing with new social situations such as Boys vocational School because he has lacked this early training (4) and guidance. rord—also stresses this when he says:

The foster home, which is classified as a form of broken home, furnishes a higher proportion of delinquents than do the child care institutions.

The 691 subjects of rord's study were convicted delinquents in four institutions in Pennsylvania.

⁽¹⁾ Jersild, Arthur T., Child Psychology, Prentice-Hall, Inc., New York, 1950, p.p. 584-585.

⁽²⁾ Glueck, Sheldon and Eleanor T., One Thousand Juvenile Delinquents, Harvard University Press, Cambridge, 1934, p. 92.

⁽³⁾ Bell, Marjorie, "The Trouble in these Broken Homes", Nervous Child, 3, 53-58, 1943.

⁽⁴⁾ Ford, C. A., "Institutional Rearing as a Factor in Delinquency", Proceedings Fourth Conference Child Research Clinic, 40-45, 1938.

Family rom Table II (page 35) it can be seen that only 15% of the accepted group had one or more members of the family involved in difficulty with the law while 56% of the non-accepted group were characterized by this factor. With a t ratio of 3.72, this difference proves to be statistically significant at beyond the 1% level of confidence. See Graph X following:

The factor ramily Trouble was selected for study because of the conditioning within the home and the effect it has on the child's personal and social growth. Children who mature through the formative years in a home environment which is criminal and anti-social probably are not influenced as strongly in the direction of socially accepted behavior as those living in more benign familial environments. Significant corroboration of these findings is found in related research literature, particularly in studies by

(1)

(2)

(3)

Stury, the Gluecks and Kvaraceus, which show that delinquent families have a delinquency pattern continuing from childhood through adulthood. Stury found 33% of the fathers, 9% of the mothers and 36% of the siblings had been convicted of crime in his study of delinquent youth in a German institution. The Gluecks reveal that in 918 families there was an official criminal record

^{(1) (}Secondary Source) Stury, Richard, "Die ausseren Entwicklungsbedingungen junger Rechtsbrecher", Kriminalistische Abhandlungen, No. 32, 1938. (Primary Source) Sullenger, Thomas Earl, Social Determinants in Juvenile Delinquency, John Wiley & Sons, Inc., New York, 1936.

⁽²⁾ Glueck, Sheldon and Eleanor T., One Thousand Juvenile Delinquents, Harvard University Press, Cambridge, 1934, p. 79.

⁽⁵⁾ Kvaraceus, William C., Juvenile Delinquency and the School, World Book Co., New York, 1945, p. 77.

for parents or siblings in 532, or 57.9% of the cases. Kvaraceus' report on New Jersey Juvenile Court Cases revealed that more than 50% of other family members were in trouble. It is probable that in such homes there will be insufficient parental guidance or when there is guidance it will be (1) in the wrong direction. Symonds points out the basic insecurity and resulting behavior of poor parental guidance when he states:

Because of neglect or misdirection which conflicts with society, the delinquent is likely to become rebellious, hostile, jealous, attention-getting, annoying or hyper-active. Another type of reaction to the feeling of insecurity is a complex feeling of humiliation, leading to isolation and timidity.

Race The Race factor revealed that 45% of the accepted group were Negroes while only 8% of the non-accepted group were Negroes.

With a tratio of 3.08, this difference is statistically significant at beyond the 1% level of confidence.

Non-accepted XXXXXXXX

Prop. .08

Most students of racial prejudice feel that prejudices, whether racial, religious etc., are learned and that patterns become more varied as the individual grows older. Horowitz's study demonstrates very well the increasing prejudice from kindergarten through the 8th grade. The expected results for this factor would be that Negroes would be proportionately high in the non-accepted group and relatively low in the accepted group. This data reflects

ARCH. PSYCHOL., 28, No. 194.

⁽¹⁾ Symonds, Percival M., The Psychology of Parent-Child Relationships, D. Appleton-Century Inc., New York, 1939.

⁽²⁾ Krech, David, and Crutchfield, Richard S., Theories and Problems of Social Psychology, McGraw-Hill Book Co., Inc., 1948, p.p. 443 f.f.

(3) Horowitz, E. L., "The Development of Attitudes Toward the Negro",

just the reverse. The opposite results of what was expected in this factor of the study are based upon selectivity within the Negro group. In other words, there may have been a tendency for colored boys to choose members of their own race and not such a tendency for white boys to choose their own race and exclude Negroes. This is not to imply that the Negro subjects were evidencing prejudice against their white cottage-mates, but that perhaps in such a closed social situation as cottage life presents, there was more ethnocentric feeling on the part of the Megro group. This supposition is given weight by the following: in one cottage for one month the pattern of selection was broken down and it developed that out of a total of fifty-five choices. the percent of colored boys chosen by the total group equalled 38%; the percent of the total cottage population who were colored was 12.6%. rour colored boys were chosen twenty-one times, three colored boys made nine choices, these three colored boys chose colored boys eight out of nine choices which resulted in 89% of the colored boys choosing members of their own race. A study of other cottages showed like results although the percentages were somewhat lower. In view of these findings, it is doubtful as to how much weight can be ascribed to acceptance in connection with the race factor in the training school situation.

There were several other factors of the thirty-three selected which, upon preliminary examination, seemed to merit statistical investigation. In each factor the resulting t score was not significant at either the 5% or 1% level, but they did demonstrate varying tendencies between the two sub-groups of the study.

Examination of the data covering family breakdown within the two groups, that is, Parents Deceased, Divorced or Separated, revealed that the accepted

group has less total breakdown. Statistically the accepted group had 10% less death of either parent; 12% less divorce; but 12.5% more separation. The separations which may end in divorce would tend to decrease the difference between the two groups on these two factors. Although eventual divorce is supposed, it cannot be factually stated. Divorce and separation resulted in t scores of 1.0 and 1.19; therefore, neither of these two factors is significantly differentiating. Several studies—show larger proportions of broken homes by death, divorce and separation than is the case with this sample.

The factor of rathers Occupation was broken down into two categories, skilled and other, because of the preponderance of unskilled in both groups, and the fact that statistically it would have been impossible to treat the data in a more refined manner. The two groups proportioned on this basis resulted in the accepted group having a somewhat lower proportion of fathers with skilled jobs, .79, as compared to .85 for the non-accepted. The resulting t score of .73 shows no significant difference between the groups. The rathers Occupation factor for the two groups approximates the findings of (2) Sullenger, who in his study of 110 delinquents, found that 85.4% of the father's occupations were unskilled, and 14.6% were equally divided between semi-skilled and skilled. It would appear that both groups in this study are essentially products of the same economic backgrounds, and for all purposes they have had similar economic advantages or disadvantages.

⁽¹⁾ Hodjkiss, Margaret, "The Influence of Broken Homes and Working Mothers", Smith college Studies in Social Work, March, 1933.

and Co., New York, 1932, p. 175.

⁽²⁾ Sullenger, T. E., Social Determinants in Juvenile Delinquency. Douglas Printing Co., Omaha, Mebraska, 1930, p. 43.

The mothers were compared for the two groups in terms of being employed, and not as to job classification. It was assumed that supervision, or lack of it from the mother was more important than the type of employment. This assumption seems to be supported by current psychological thought concerning the importance of parent-child relationships. According to the statistical procedures utilized, the t ratio of .20 is not significant. The small proportion of employed mothers is in large part due to the economic situation (1) at the time the data were gathered. According to Wiers, the urban areas of Michigan were experiencing a peak employment situation with the result that mothers were not seeking employment to supplement the family income. Approximately one in five mothers was employed in the two groups; this proportion varies from the Glueck study of 937 families, of which 389 mothers, or 51.5%, supplemented the family income. Their study, done in the depression year 1934, gives weight to the economic factor discussed above.

Alcoholism of rathers when compared resulted in a t ratio of only .09, denoting no significant difference between the accepted and non-accepted groups. Large proportions of both groups, .79 for accepted and .78 for non-accepted, who were not considered to be alcoholic as based on reports from social workers, psychologists, court and probation workers, are at variance (3) with other studies examined. Alcoholism on the part of the mother revealed a t ratio of .16 which is not significant.

⁽¹⁾ Wiers, Paul, Economic ractors in Michigan Delinquency, Columbia University Press, New York, 1944.

⁽²⁾ Glueck, Sheldon and Eleanor T., One Thousand Juvenile Delinquents, Harvard University Press, Cambridge, 1934, p. 71.

⁽³⁾ Channing, Alice, "Alcoholism Among Parents of Juvenile Delinquents", Social Service Review, 1:3, Sept., 1927.

The factor Present Adjustment disclosed that 25% of the accepted group and 39% of the non-accepted group are in other penal institutions or Boys vocational School; this spread of 14% results in a t ratio of 1.18, which is not significant. It does, however, demonstrate some evidence that the accepted boys have a slightly better chance than the non-accepted.

Although the tratio for the factor Other Institutions is only .83 and therefore not significant, it is interesting to note that 30% of the accepted boys had been in other institutions, while only 10% of the non-accepted had other institutionalized training prior to their committment, to Boys Vocational School. One explanation of this percentage trend is that the accepted group, upon arrival at Boys Vocational School, had more knowledge of institutional jargon, routine, methods of gaining favor, etc., than the non-accepted and therefore found assimilation and acceptance easier.

The factor of rather's Education showed a very slight statistical difference between the two groups; the mean difference of 1.02 yielding a t ratio of 1.14, which is not significant at either the 5% or 1% level. It is inferred that rather's Schooling has approximately chance relationship when considering acceptance.

Legitimacy of Birth, Mother's Education, Number of Siblings, Sibling Position, Age, Height, Weight, Times at Boys Vocational School, I.Q., Grade Placement and Monthly Grades revealed differences that were so small it was obvious they would not be discriminative factors in acceptance within the two sub-groups of this study.

CUNCLUSIONS

This sociometric study of two sub-groups, accepted and non-accepted boys at Boys vocational School, resulted in the following conclusions:

- psychological factors as those which supposedly differentiate the delinquent from the non-delinquent. Individual differences in intelligence, height, weight, age and economic factors have no greater range and less statistical importance than social-psychological factors such as group participation (Activities), Other ramily members in Trouble, Cottage (1) Changes, etc.
- 2. Significant differences between the two groups are centered around social situations; Disciplinary Action or social aggression, Number of Runaways or social retreat, Activities or social participation, Problem theck List or social and personal insecurity, Residence or social interaction and roster Home or sociological displacement. All these factors proved to be significant when measured by the statistical procedures utilized in this study at either the 5% or 1% level.
- 3. Race and ramily Trouble are also closely allied to the social sphere of the individual's life, and the accepted and non-accepted are singularly differentiated in these areas of human interaction. Boys at Boys Vocational School, especially the non-accepted, appear to lack those social traits which are vital to establishing close personal relationships. Instead they can be observed to demonstrate, within this Institution at least, personality traits of introspection, fearfulness and/or various attention-

⁽¹⁾ See Tables I and II

seeking behavior patterns. They have not yet learned the lessons of social compliance; that they cannot indiscriminately evidence the impulsiveness and desires that they have without getting into difficulty with society (cottage parents and other boys) or creating conflicts within themselves. This social immaturity is more marked in members of the non-accepted subgroup than in the accepted in this study. They have not yet fully learned that such behavior will result in retribution in one way or another. The non-accepted boys' immaturity and fearfulness is evidenced by his higher incidence of running away, disciplinary action, detail changes, cottage changes, etc. The real tragedy for these boys is that although they may sense and value their needs, they too often fail altogether to comprehend why they do not measure up to their group's standards.

delinquent youths in recreation, counselling and home life, that delinquent youth are not, as a group, significantly different from non-delinquent youth in desires and objectives; their aspirations are just as vital and demand fulfillment as strongly as any adolescent. They differ, however, in the social acceptibility of their method of satisfying their needs or gaining their objectives. It is felt that in dealing with these two sub-groups it is of vital importance that concern and work be directed toward investigating the social forces within the boy's life which have produced his individual behavior pattern, and not with custodial control to prevent further legally defined delinquent acts. Delinquent youth, particularly the non-accepted sub-group, have feelings of irresponsibility, resentment and cruelty; they are more emotionally unstable and with their sudden changes in emotions and conduct they are difficult to work with successfully. There is often

wide divergence between their ambition and achievements because of a lack of self-confidence and self-assurance. Any approach to correct these associal trends must include a plan whereby the social strivings of the individual will be satisfied in a way that is compatible with the social standards of the group in which he is living.

IMPLICATIONS

The results of this study indicate it is possible to differentiate among delinquents on the variable of peer acceptance. This would seem to be an important first step towards an adequate differential diagnosis in dealing with delinquents. Since eleven out of the thirty-three factors considered differentiate the two groups, these findings would seem to have several implications both in terms of practical application and further research.

Only one major socio-psychological characteristic was used to differentiate the two sub-groups in this study, namely, acceptance among peers within the institution. The factors which discriminate along this dimension may or may not prove discriminating along other dimensions of behavior such as agressiveness, neuroticism, treatibility, etc., and these relationships need to be investigated in order to make an adequate differential diagnosis.

The fact that five of the eleven factors which differentiated the two groups deal with pre-institutional experiences seems to hold some promise of allowing us to predict at the time of institutionalization an individual's peer acceptance within the institution. This may enable us to institute appropriate treatment on this basis, e. g., in initial cottage assignment, detail (vocational) assignment, for intensive individual counselling and personal guidance and for developing programs and opportunities for these individuals to practice and learn the social skills involved in group living. This obviously needs to be investigated more thoroughly.

Post-institutional treatment which would increase the peer acceptance of the non-accepted group might prove to be of value for the ultimate social adjustment of these individuals. This would seem to be a logical extension of the institutionalization although quite probably it would necessitate a revision in the philosophy of many people who expect a relatively brief period of institutionalization to bring about marked changes in the behavior of individuals. If this type of treatment were possible the effectiveness of the diagnostic efforts of the institution would be greatly increased.

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TABLE I
T Scores Based Upon Means

Factor	N	М	SIGMA	N	М	SIGMA	D1FF.	t	5%	1%
Father's Education	17	8.6	3.11	43	7.58	2.71	1.02	1.14	-	•
Mother's Education	16	7.5		42	7.90	****	0.40		-	-
No. of Siblings	20	4.9		51	4.86		0.04		-	-
Sibling Position	20	2.8	****	51	2.94		0.14		-	-
Ag•	20	15.0		51	14.30		0.70	•	-	-
Height	20	64.45	4.02	51	63.41	3.57	1.04	•99	-	-
Weight	20	124.7	22.01	51	116.20	24.46	8.5	1.44	-	-
No. of Disciplinary Actions	20	2.9	2.96	51	5.5	4.35	2.60	2.85	-	**
No. of Runaways	20	1.1	1.71	51	2.7	4.71	1.6	2.08	**	-
Activities	20	1.45	1.21	51	0.21	0.53	1.24	6.63	•	**
Months at BVS	20	9.25	2.73	51	14.2	5.76	4.94	4.84	-	**
Times at BVS	20	1.75		51	1.72		0.03	••••	-	-
Detail Changes	20	4.80	3.53	51	8.50	4.37	3.70	3.62	-	**
I. Q.	20	88.70	13.11	51	86.0	13.85	2.70	0.79	-	-
Grade Placement	20	5.93		49	5.0		0.93		-	-
Problem Check List	16	24.60	20.47	44	43.4	39.02	18.80	2.46	**	-
Monthly Grades	19	28.57	27.03	49	32.0	18.45	3.43	0.49	-	•
Cottage Changes	20	•55	•92	51	1.47	1.56	•92	3.28	-	**

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FACTOR	×	P Accepted	or 	G	z	A A	Q OF	opted	DIFF	# .	2%	1%	
Residence	02	• 95	•05	•0489	20	.72	•28	•0632	.23	2.87		*	
Father Alive	20	06•	•10	•0670	51	.86	.14	.0489	40.	• 50	1	,	T/
Lother Alive	50	06.	•10	0.000	51	• 8 4	•16	•0519	90•	• 20	1	•	BLE
Divorced	20	•80	• 20	•0894	21	69•	.31	•0632	.11	1.0	•	•	II -
Separated	20	•75	• 25	6960*	51	.88	.12	•0458	.13	1.19	•	•	T
Father's Occupation	19	.79	.21	•0933	4 8	.85	•15	.0519	• 08	.73	•	1	Scor
Mother's Occupation	20	•80	•20	•0894	20	• 82	•18	.0538	• 05	•20	•	•	res I
Father Alcoholic	20	•79	.21	.0911	20	•78	•25	.0583	•01	60•	1	•	Based
Mother Alcoholic	20	• 95	•05	•0489	20	96	90•	•0331	•01	•16	1	1	l Upo
Legitimacy of Birth	20	06•	•10	•0671	51	06•	•10	•0424	80	00•	•	•	on Pr
Foster Home	80	• 95	•05	.0489	51	• 68	• 32	•0656	•27	3.37	•	*	opor
Other Institutions	20	• 70	•30	.1024	61	• 80	•20	•0557	•10	.83	•	•	tion
Касе	20	•45	• 55	•1114	51	•08	.92	.0374	.37	3.08	1	#	18
Family Trouble	20	.15	• 85	•0884	90	• 56	•44	.0700	.41	3.72	•	*	
Present Adjustment	02	•25	•75	6960•	51	•39	•61	•0685	•14	1.18	•	•	

TABLE III

MEANS AND PROPORTIONS OF THE THIRTY-THREE FACTORS

Classification	Accepted	Non-accepted
Residence Urban		
Father Alive		
Mother Alive		
Divorced		• . •
Separated		
Father's Occupation Unskilled		
Mother's Occupation Housewife Employed		- -
Father Alcoholic		
Mother Alcoholic		
Father's Education . Total Grades	17	43
Mother's Education Total Grades	16	42
No. of Siblings Total No	20	51

TABLE III (Cont.)

Classification	Accepted	Non-accepted
Activities Total No. Activities		• • 11 • • 51 • • 0.21
Months at BVS Total No. Months		51
Times at BVS Total No. Times	. 20	51
Cottage Changes Total No. Changes	. 20	• • 66 • • 51 • • 1.3
Detail Changes Total No. Changes	. 20	• • 51
I.Q. Total I.Q.'s	. 20	• • 51
Grade Placement Total No. Grades	20	• .249.60 • . 49 • . 5.0
Problem Check List Total No. Problems	16	44
Present Adjustment On Parole		
Monthly Grades Total No. Grades	19	49

TABLE III (Continued)

Classification	Accepted	Non-accepted
Sibling Position Total No. Positions	20	• • 51
Family Trouble In Trouble		
Legitimacy of Birth Legitimate		
Boarding Home In Boarding Home Not in Boarding Home		· · · · · · · · · · · · · · · · · · ·
Other Institutions		
Age Total No. Years	20	• • 51
Height Total No. Inches	20	51
Weight Total No. Pounds	20	51
Race White	• • • 55 • • • • • • • • • • • • • • •	• • 92 • • 08
BVS Disciplinary Action Total No. Disciplines	20	• • •
Number of Runaways Total No	20	• • 141 • • 51 • • 2.7

Cottage: Vermont Hall pate:

6/5/49

By:

R. Harrington

APPENDIX A

ART 16

. . . . **8**

IVAN ·_... 7

NOLAN OBIE

BOB CHARLIE DON ED 5

GEORGE FRED HOWARD ISADOR

JUE KEN LOU MIKE EDGAR

PETER QUIGLEY ROGER

1

AL BILL CARL DICK TOM

APPENDIX B

WECHSLER-BELLEVUE INTELLIGENCE SCALE R FOR ADOLESCENTS AND ADULTS

RECORD	1
FORM	1

NAME	AGEE	DUCDATE OF EXAM	NO
OOCUP	NAT	BIRTHDATE	COLOR
PLACE OF EXAM	EXAM. BY	PREVIOUS EXAM	l

				DI F	TABLE OF WEIGHTED SCORES†							
7		RAW SCORE							7			
Equivalent Weighted Score	Information	Comprehension	Digit Span	Arithmetic	Similarities	Vocabulary	Picture Arrangement	Picture of Completion	Block Design	Object Assembly	Digit Symbol	Equivalent Weighted Score
18	25	20		14	23-24	41-42	20+		38+			18
17	24	19	17	13 12	21-22	39-40	20		38	26		17
16	23	18	16		20	37-38	19		35-37	25	66-67	16
15	21-22	17		11	19	35-36	18	15	33-34	24	62-65	15
14	20	16	15		17-18	32-34	16-17	14	30-32	23	57-61	14
13	18-19	15	14	10	16	29-31	15	13	28-29	22	53-56	13
12	17	14		9	15	27-28	14	12	25-27	20-21	49-52	12
11	15-16	12-13	13	,	13-14	25-26	12-13	-	23-24	19	45-48	11
10	13-14	11	12	8	12	22-24	11	11	20-22	18	41-44	10
9	12	10	11	7	11	20-21	10	10	18-19	17	37-40	9
8	10-11	9			9-10	.17-19	9	9	16-17	16	33-36	8
7	9	8	10	6	8	15-16	7-8	8	13-15	14-15	29-32	7 6
6	7-8	7	9	5	7	12-14	6	7	11-12	13	24-28	6
5	6	5-6			5-6	10-11	5		8-10	12	20-23	5
5 4 3	4-5	4	8	4	4	7-9	4	6	6-7	10-11	16-19	4
3	2-3	3	7	3	3	5-6	2-3	5	3-5	9	12-15	5 4 3 2
2	1	2	6		1-2	3-4	1	4	1-2	8	8-11	2
1 '	0	1	1	2	0	1-2	0	3	0	7	4-7	1
0	1	0	5	1	l	0	1	2	1	5-6	0-3	0

SUMMARY					
TEST	WT.S.				
INFORMATION ·					
COMPREHENSION					
DIGIT SPAN					
ARITHMETIC					
SIMILARITIES					
(VOCABULARY)	ť)(
VERBAL SCOR	E*				
P. ARRANGEMENT					
P. COMPLETION					
BLOCK DESIGN					
OBJECT ASSEMBLY					
DIGIT SYMBOL					
PERFORMANCE SCORE*					
TOTAL SCORE					
*Proration is necessary if four or six Verbal tests are given or four Perfomance tests.					
VERBAL SCALE	l.Ç				
PERFORM. SCALE	ç				

†Clinicians who wish to draw a "psychograph" on the above table may do so by connecting the appropriate raw scores; however, one must recognize the relative unreliability of these subtest scores when they are thus treated.

TEST ANALYSIS AND OBSERVATIONS

1.	INFORMATION	Score
	(PRESIDENT)	
1	BEFORE	
2	THERMOMETER	
3	RUBBER	
4	LONDON	
5	PINTS	
6	WEEKS	
7	ITALY	
8	JAPAN	
9	HEIGHT	
ю	PLANE	
.11	BRAZIL	
12	PARIS	
13	HEART	
14	HAMLET	
15	POPULATION	
16	WASHINGTON	
17	POLE	
18	EGYPT	
19	H. FINN	
20	VATICAN	
21	KORAN	
22	FAUST	
23	H. CORPUS	
24	ETHNOLOGY	
25	APOCRYPHA	

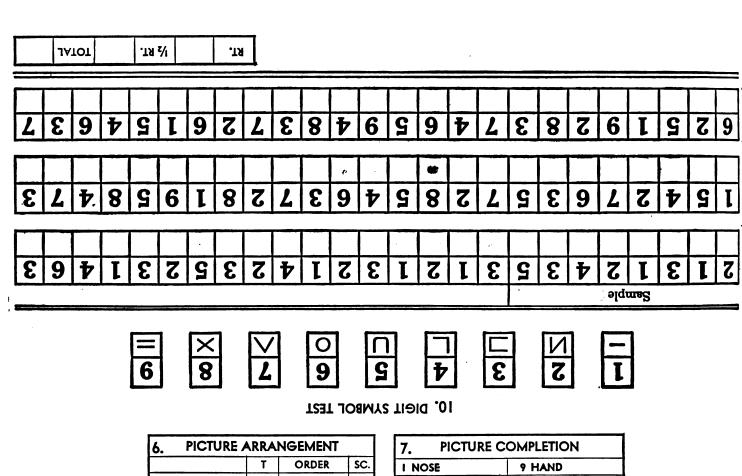
I ENVELOPE 2 THEATER 3 BAD COMPANY 4 TAXES	
3 BAD COMPANY	
4 TAXES	
5 SHOES	
6 LAND IN CITY	
7 FOREST	
8 LAWS	
9 MARRIAGE	
10 DEAF	

3. DIGITS FORWARD	DIGITS BACKWARD
5, 8, 2	6, 2, 9
6, 9, 4	4, 1, 5
6, 4, 3, 9	3, 2, 7, 9
7, 2, 8, 6	4, 9, 6, 8
4, 2, 7, 3, 1	1, 5, 2, 8, 6
7, 5, 8, 3, 6	6, 1, 8, 4, 3
6, 1, 9, 4, 7, 3	5, 3, 9, 4, 1, 8
3, 9, 2, 4, 8, 7	7, 2, 4, 8, 5, 6
5, 9, 1, 7, 4, 2, 8	8, 1, 2, 9, 3, 6, 5
4, 1, 7, 9, 3, 8, 6	4, 7, 3, 9, 1, 2, 8
5, 8, 1, 9, 2, 6, 4, 7	9, 4, 3, 7, 6, 2, 5, 8
3, 8, 2, 9, 5, 1, 7, 4	7, 2, 8, 1, 9, 6, 5, 3
2, 7, 5, 8, 6, 2, 5, 8, 4	
7, 1, 3, 9, 4, 2, 5, 6, 8	

4.			Al	RITH	I ME	TIC			
		T	RorW	SC.			T	RorW	SC.
1	(15")				6	(30")			
2	(15")				7	(60'')			
3	(15")				8	(60")			
4	(30")				9	(120")			
5	(30")				10	(120")			

5.	SIMILARITIES	Score
1	ORANGE — BANANA	
2	COAT — DRESS	
3	DOG — LION	,
4	WAGON — BICYCLE	
5	PAPER — RADIO	
6	AIR — WATER	
7	WOOD — ALCOHOL	
8	EYE — EAR	
9	EGG — SEED	
10	POEM — STATUE	
11	PRAISE — PUNISHMENT	
12	FLY — TREE	
		l

5A.	VOCABULARY	Score
I Al		
	DNKEY	
3 JC		
	AMOND	
	JISANCE	
6 FL		
	JSHION	
	IILLING	
	AMBLE	
10 BA		
II N		
12 CI		
13 TII		
	RMORY	
15 FA		
16 BR		
	UILLOTINE	
18 PL		
	CLUDE	
	TROGLYCERINE	
21 ST	· · · · · · · · · · · · · · · · · · ·	
	ICROSCOPE	
23 VI		
24 BE		
25 RE		
	FLICTION	
27 PE		
28 BA	LLAST	
	ATACOMB	
	ANGLE	
	PIONAGE	
	MINENT	
33 M.	ANTIS	
34 H.	ARA-KIRI	
	HATTEL	
	LATORY	
37 A	MANUENSIS	
	OSELYTE	
39 M	OIETY	
40 A	SEPTIC SEPTIC	
41 FL		
	ADUCE	
	RT. 1/2 RT. TOTAL	



6. PICTURE ARRANGEMENT								
		T	ORDER	SC.				
I HOUSE	(1')							
2 HOLD UP	1')			T				
3 ELEVATOR	1')							
4 FLIRT	(2')							
5 TAXI (2')							
6 FISH (2')							

7. PICTURE	COMPLETION
I NOSE	9 HAND
2 MUSTACHE	10 WATER
3 EAR	II ARM IMAGE
4 DIAMOND	12 TIE
5 LE G	13 BASE THREAD
6 TAIL	14 EYEBROW
7 STACKS	15 SHADOW
8 KNOB	

8.	-		BLC	CKS			
CARD	T	AC.	SC.	CARD	T	AC.	SC.
1 (75")				5 (150")			
2 (75")				6 (150")			
3 (75")				7 (195")			
4 (75")							
4 (75")		l				┰	<u></u>

9. OBJECT ASSEMBLY									
OBJEC.	TS	T	PLACE	SCORE					
MAN	(2')								
PROFILE	(3')								
HAND	(3')								
HAND	(3')	l		-					

FOR	CALCU	JLATING DETERIORA	TION (se	ee Measurement of Adult Intelligence, Chapter VI)
"HOLD" TESTS	Score	"DON'T HOLD" TESTS	Score	
INFORMATION		DIGIT SPAN		% OF LOSS (Deterioration)
VOCABULARY		ARITHMETIC		
P.COMPLETION		BLOCK DESIGN		"HOLD":"HOLD":"HOLD"=
OBJECT ASSEMBLY		DIGIT SYMBOL		CORRECTION % LOSS
SUM		SUM		70 LO33

APPENDIX C

WECHSLER-BELLEVUE INTELLIGENCE SCALE R FOR ADOLESCENTS AND ADULTS

RECORD	TT
FORM	Ш

NAME	AGEEDUC	DATE OF EXAM.	NO
OCCUP.	NAT	BIRTHDATE	COLOR
PLACE OF EXAM	EXAM. BY	PREVIOUS EXAM	

H		 						-					
1				TA	BLE C)F WI	EIGHT	red s	CORE	:S†			
Ľ	Ð					RA'	w scc	ORE					ص
(T T T T T T T T T T T T T T T T T T T	Equivalent Weighted Score	Information	Comprehension	Digit Span	Arithmetic	Similarities	Vocabulary	Picture Arrangement	Picture Completion	Block Design	Object Assembly	Digit Symbol	Equivalent Weighted Score
	17	·	19-20	17	26-28	24	42-45	23-30		43-44		90-93	17
	16	29-30	18	16	24-25	22-23	40-41	21-22		40-42	27	85-89	16
	15	27-28	17		22-23	20-21	38-39	19-20	15	37-39	26	80-84	15
	14	25-26	16	15	21	19	36-37	18		34-36	25	75-79	14
	13	24	15	14	19-20	17-18	33-35	16-17	14	31-33	23-24	70-74	13
	12	22-23	14		18	15-16	31-32	15	13	28-30	21-22	65-69	12
	11	20-21	13	13	16-17	14	29-30	13-14	11-12	25-27	19-20	60-64	11
	10	19	12	12	15	12-13	27-28	11-12	10	22-24	18	55-59	10
	9	17-18	10-11	- 11	13-14	11	24-26	10	9	19-21	16-17	49-54	9
	8	15-16	9		11-12	9:10	22-23	8-9	8	16-18	14-15	.44-48	8
	7	13-14	8	10	10	7-8	20-21	7	7	13-15	12-13	39-43	7
	6	12	7	.4	8-9	6	17-19	6	6	10-12	10-11	34-38	6
	5	10-11	5-6		7	5	15-16	4-5	5	7-9	8-9	29-33	5
l	4	8-9	4	8	5-6	4	13-14	3	4	5-6	6-7	24-28	4
	3	6-7	3	7	4	2-3	10-12	2		3-4	4-5	19-23	3
	2	1 5	2	6	2-3	ı	8-9		3	1-2	3	14-18	2
	1	3-4	1		0-1		6-7	0	2	0	2	9-13	1
	0	0-2	0	0-5			0-5		0-1		0	0-8	0

SUMMA	ARY .					
TEST	WT.S.					
INFORMATION						
COMPREHENSION						
DIGIT SPAN						
ARITHMETIC						
SIMILARITIES						
VOCABULARY						
VERBAL SCOR	E					
P. ARRANGEMENT						
P. COMPLETION						
BLOCK DESIGN '						
(OBJECT ASSEMBLY)						
DIGIT SYMBOL						
PERFORMANCE SO	CORE					
W	T.S.*	I.Q.				
VERBAL SCALE						
PERFORM. SCALE						
FULL SCALE	 -					
*PRORATED, IF NECESSAR	Y (See Man	ual)				

iClinicians who wish to draw a "psychograph" on the above table may do so by connecting the appropriate raw scores; however, one must recognize the relative intellability of these subtest scores when they are thus treated.

EST ANALYSIS AND OBSERVATIONS

I. INFORMATION	Score
A EARS	
B FINGER	
C LEGS	
D MILK	
E STORE — SUGAR	
F PENNIES	
I DAYS	
2 WATER — BOIL	
3 THINGS — DOZEN	
4 SEASONS — YEAR	
5 C.O.D.	
6 COLOR — RUBIES	
7 FOURTH — JULY	
8 CHILE	
9 POUNDS — TON	
10 ROMEO — JULIET	
II SUN — SET	
I2 STOMACH	
13 AMERICAN — MAN	
14 CAPITAL — GREECE	
15 OIL — FLOAT	
16 LABOR DAY	
17 TURPENTINE	
18 N. Y. — CHICAGO	
19 RAYON	
20 HARROW	
21 HIEROGLYPHIC	
22 IMPEACH	
23 LIEN	
24 GHENGIS KHAN 25 PARADISE LOST	
26 BAROMETER	
27 PRIME NUMBER	
47 FRIME NUMBER	

2.	COMPREHENSION	Score
1	BOOK (WATCH)	
2	HOUSE — BRICK	
3	TRAIN	
4	CHARITY — BEGGAR	
5	FRIEND	
6	CRIMINALS	
7	CIVIL SERVICE	
8	CITIZEN	
9	COTTON — CLOTH	
10	PROMISE	

SITS	B/	١C	:K\	N	٩R	D
2, 5 6, 3		-				
) 5, 7 2, 5				•		
) 7, 2 8, 4						
) 4, I 9, 7						
) 1, 6 3, 6		-				
) 8, 5 4, 5						
) 6, 9 3, I					_	_
	3, 1	3, 1, 7,	3, 1, 7, 9,	3, 1, 7, 9, 5,	3, 1, 7, 9, 5, 4,	3, 1, 7, 9, 5, 4, 8,

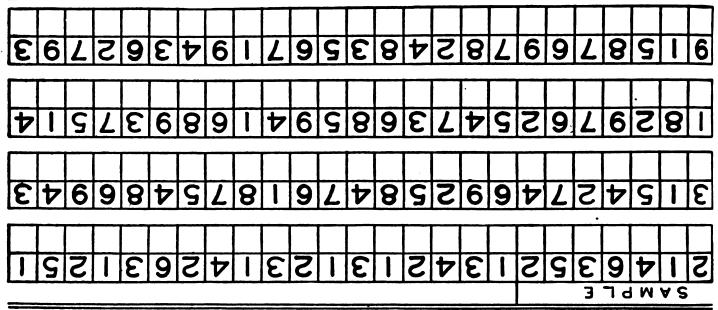
4.		ARITHMETIC							
		T	RorW	SC.			T	RorW	SC.
T	(15")				6	(60")			
2	(15")				7	(60'')			
3	(15")				8	(120")			
4	(30")				9	(120")			
5	(30")				10	(120")			

5.	SIMILARITIES	Score
 	PLUM — PEACH	
2	BEER — WINE	
3	CAT — MOUSE	
4	PIANO — VIOLIN	
5	PAPER — COAL	
6	POUND — YARD	
7	SCISSORS — COPPER PAN	
8	MOUNTAIN — LAKE	
9	FIRST — LAST	
10	SALT — WATER	
"	LIBERTY — JUSTICE	
12	49 — 121	

5	A. VOCABULARY	Score
ī	BICYCLE	
2	KNIFE	
3	HAT	
4	APPLE	
5	DONKEY	
6	BOX	
7	BAD	
8	UMBRELLA	
9	BRAYE	
10	NUISANCE	
11	DIAMOND .	
12	LETTER	
13	JOIN	
14	FUR	
15	CUSHION	
16	NAIL	
17	GAMBLE	
18	SPADE	
19	SHILLING	
20	FABLE	
	SWORD	
	NONSENSE	
	HERO	
	NITROGLYCERINE	
	MICROSCOPE	
_	ESPIONAGE	
_	STANZA	
	SECLUDE	
_		
	SPANGLE	
_	BECERY	
	RECEDE	
	AFFLICTION	
_	BALLAST	
	CATACOMB	
	IMMINENT	
	MANTIS	
	HARA-KIRI	
	VESPER	
	ASEPTIC	
Ю	CHATTEL	
11	DILATORY	
42	AMANUENSIS	
43	MOIETY	
14	FLOUT	
45	TRADUCE	
	RT. 1/2 RT. TOTAL	

i























10, DIGIT SYMBOL TEST

6. PICTU	RE A	RRAI	NGEMENT	
		T	ORDER	SC.
I FARMER (4	(5")			
2 BURGLAR (45")			T
3 PICNIC (45")			
4 SLEEPER (75")			
5 GARDENER (60")			
6 KING (60")			T
7 RAIN (75")			
7 RAIN (75")			L_

7. PICTURE	COMPLETION
I MOUTH	9 ANTENNAE
2 WHISKERS	10 MERCURY
3 DOOR HINGE	II HATBAND
4 SCREW	12 SPOKES
5 SPUR	13 CLEFT
6 SPADE	14 SHADOW
7 BUTTONHOLES	15 EYEBROW
8 FIN	

8.	BLOCKS						
CARD	T	AC.	SC.	CARD	T	AC.	SC.
DEM.				4 (75")			
1 (75")				5 (150")			
2 (75")				6 (150")			
3 (75")		1		7 (150")			

9.	OBJECT ASSEMBLY						
OBJECT		T	PLACE	SCORE			
HORSE	(3')						
FACE	(3')						
AUTO	(3,)		-				

FOR CALCULATING DETERIORATION (see Measurement of Adult Intelligence, Chapter VI)					
"HOLD" TESTS	Score	"DON'T HOLD" TESTS	Score	0/ 05 loss /p	
INFORMATION		DIGIT SPAN		% OF LOSS (Deterioration)	
VOCABULARY		ARITHMETIC			
P.COMPLETION		BLOCK DESIGN		"HOLD"="DON'T HOLD"÷"HOLD"=	
OBJECT ASSEMBLY		DIGIT SYMBOL		CORRECTION % LOSS	
SUM		SUM		7 ₀ LO33	

STANFORD ACHIEVEMENT TEST

By TRUMAN L. KELLEY, GILES M. RUCH, and LEWIS M. TERMAN

INTERMEDIATE BATTERY—PARTIAL FORM D

In	ter.
Pa	rtial
1	

Name			A ge	Grade
Boy or girl	Name of school		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
City	State	· · · · · · · · · · · · · · · · · · ·	Date	• • • • • • • • • • • • • • • • • • • •

Test	Score	AGE EQUIVA- LENT	GRADE EQUIVA- LENT
1. Paragraph Meaning			
2. Word Meaning			
Average Reading			
3. Language Usage			
4. Arithmetic Reasoning			
5. Arithmetic Computation			
Average Arithmetic			•
6. Spelling			
Total (Average)			

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Г	Test 1	Test 2	Te et 3	Test 4	Test.5	Test 6	TOTAL	NORMS	
1		DING		ARITH		SDEI I-	SCORE	AGE GRAI)E.
I _D	ar.mean.		LAIVO	Descon	Comp	ING	÷ 6	EQUIV. EQU	75
٢	ar.mean.	womean	USAGE	Reason	Comp.	1140	70	EQUIV. EQU	<u>. v.</u>
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1	+	+	+	+	†	+	+		
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1	~~ †	+	+	+	+	+	+ ^=	1	
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ı	İ	<u>†</u> .	İ.	İ	İ	1	İ		
ı	90 Ŧ	Ŧ	Ŧ	Ŧ	Ŧ	Į	Ŧ 90		
	+	†	+	†	†	+	† **		
1	Į	Į	Į	Į	Ţ	Į	Į		
1	or †	+	+	ŧ	+	+	+ 0-		
1	85 🛨	Ī	Ī	#	#	#	± 85		
1	+	+	+	Ŧ	+	+	+		
1	İ	1	İ	İ	1	İ	1		
1	80 I	Ŧ	Ŧ	Į,	Ŧ	Ŧ	∓ 80		
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1	75 +	+	+	+	+	+	+ ==	+15-7 + 19	0.6
ı	75 🛨	#	#	#	#	#	± 75	I +15-0 + +10).3 0.0
ı	+	+	+	+	+	. +	+	+ 14-9	9.8
	İ	1	İ	İ	†	1	İ	+14-6 +14-3 + 3	#5 43
1	70 	,Ţ	ΙŦ	ıŦ	ıΨ	,Ţ	,∓ 70	+14-0 + 9	<u> </u>
ı	11	Ι±	1±	1±	1±	11	1+ "	1 113-9 1 8	38
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ı	65 🛨	#	Ţ	#	Ŧ	‡	± 65	1 12-10 I 2	7.6
1	+	+	+	+	+	+	+	12-10 12-8 12-5 12-2 12-0	7.4
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ı	55 🛨 1	ΙĪ	1	1#	1#	1‡	1 + 55		58 58
ı	+1	1+	1+	1+	1+	1+	`+	10-8 10-6 + 10-6	5.6
1	1	İ	Ė	İ	1	İ	İ	110-5 1	25
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	‡	Į.	Į	Ŧ	Į	Į	Ŧ	10-5 -10-3 -10-2 -10-0 -9-11	98 95 99 99 99 99 99 99 99 99 99 99 99 99
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	+	+	+	+	+	+	+	1 + 9 6 + 4	1.5
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1	35 🛨	Ţ	Ţ	Ţ	Ŧ	Ţ	± 35	I & 7 I 3	3.6
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1	30 +	+	+	+	+	+	+ 30		33
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t	‡	‡	‡_				<u> </u>	1 7 6 1	د2
_									

This Profile Chart is a table of norms for the Intermediate and Advanced Examinations — Partial Batteries. Comments:

*Age and grade equivalents above this point are extrapolated values.

DIRECTIONS. In the paragraphs below, each number shows where a w	yord has been left out. Boad
each paragraph carefully, and wherever there is a number decide	
Then write the missing word in the answer column at the right, as	shown in the sample. Write
JUST ONE WORD on each line. Be sure to write each answer of	on the line that has the same
number as the number of the missing word in the paragraph.	
SAMPLE.	Answer

A-B Dick and Tom were playing ball in the field. Dick was throwing the —A— and —B— was trying to catch it.	Aball B
$^{1-2}$ A mother bird was picking worms out of the ground. Instead of eating them herself, she carried them to her -1 — to feed to her -2 —.	2
3-4 It was a lovely sunny morning. Bobby and Betty were happy as they piled baskets of good things to eat into the car. —3— were going on a —4—.	3
5-6 Have you ever heard of a library without any books? There is such a library, owned by a motion-picture company, that contains nothing but hair. It has more than fifty thousand pieces — wigs, mustaches, and beards in styles of many years, past and present. The next time you see your favorite brunette actress appear on the screen as a blonde, either she may have had her hair bleached, or, more likely, she is wearing a —5— from this —6—.	
7-8-9 When traveling in China, I came upon an old fort with stone and earth walls that were twenty-four feet high and twelve feet thick. The -7— were therefore twice as -8— as they were -9—.	7 8 9
10-11-12 One of the most famous explorers of Africa was a missionary sent from England named Livingstone. He traced the course of important rivers, discovered great lakes, and tried to find the parts of —10— that were best suited to white men. He performed his missionary work as he traveled, establishing missions and preaching the gospel of Christianity. Finally his arduous labors ruined his health, and he —11— in Africa. His body was taken back to his home in —12— for burial, and he is honored as one of the world's greatest explorers.	11

27-28-29 One of the paradoxical developments of the machine age is increased leisure-time interest in handicrafts. Such activities as weaving, woodworking, and knitting are carried on by large numbers of persons. By decreasing the amount of time necessary to perform many kinds of labor, the widespread use of -27— has increased the desire of people to do work with their -28— in their -29— time.	28
$^{30-31-32}$ There were three great philosophers and leaders of thought in ancient Greece who are still revered by students everywhere. Socrates, the first of these, was put to death because of his teachings. Plato, a young student of Socrates, took up the latter's work after his death and taught the people what he had learned from his great instructor. After Plato came Aristotle, who, though he belonged to a different school of thought from that of $-30-$ and $-31-$, was an equally great $-32-$ and teacher.	
speech and writing. But it has not always been easy to make one's self understood wherever one went. For this reason sign language was developed. The Indians whose various tribes spoke different dialects perfected —33— language to a high degree. Today a standard sign language has also been developed for the use of those unfortunate persons who by birth or accident cannot —34— or —35—.	34
36-37-38 "Blue stocking" means, figuratively, a female pedant, or one who emphasizes learning unduly. It derives its name from literary societies of the seventeenth and eighteenth centuries whose members wore $-36-37$ — as a distinguishing mark. In present-day usage the term is applied to women who make a display of their $-38-$.	37
39-40 Chile is a country of great versatility and wonderful natural gifts. In the mountains are rich mines, and in the lower regions the soil is fertile and productive. In the sea, rivers, and lakes all kinds of fish are to be found. This explains why $-39-$ is able to satisfy the most varied $-40-$.	39
$^{41-42-43}$ Hercules is one of the great heroes of mythology. He performed many wonderful deeds and feats of strength, but at last he was fatally poisoned by the blood of the Centaur. As his body lay on his funeral pyre with the $-41-$ rising about him, Apollo, sent by the gods, came down from the heavens and took $-42-$ up to Olympus, the home of the $-43-$.	
44-45 Dryden tells us that "Solitude is as needful to the imagination as society is wholesome for the character." By this he means that the art of thinking and contemplation is developed by -44-, but that good character requires that one live in the -45- of his fellow men. End of Test 1. Look over your work.	

In each exercise one of the five numbered words will complete the sentence correctly. Note the number of this word. Then mark the answer space at the right which is numbered the same as the word vou have selected. SAMPLES. ▲ A rose is a — 1 box 2 flower 3 home 4 month B A roof is found on a — 6 book 8 rock 9 house 10 word B 7 person 5 eat c **C** Bread is something to — 1 catch 2 drink 3 throw 4 wear ¹ An idea is a — 1 sound 2 sight 3 picture 4 laugh 5 thought..... ² To shine is to be — 6 cool 7 bright 8 drv 9 proud 3 A sawmill produces — 1 wire 2 buttons 3 boots 4 needles 5 lumber3 9 give ⁴ To offer is to try to — 6 love 7 find 8 change ⁵ A vessel is a — 1 bell 2 village 3 boat 4 wave ⁶ To sparkle means to — 6 shine 7 shake 8 smile 10 strike 6 9 eniov 2 watch 7 To pronounce is to — 1 sail 3 show 4 stand 8 A listener is a — 6 buyer 7 giver 8 cardinal 9 treasurer 5 request 9 To vanish is to — 1 disappear 2 punish 3 witness 4 examine 10 To be content is to be — 6 satisfied 7 angry 8 awake 9 faithful 10 bold . . . 10 11 To furnish means to — 1 finish 2 guard 3 supply 4 prove 12 To slumber is to — 6 answer 2 lonely 3 delicious 4 skillful 5 thriving 13 13 Clever means — 1 monstrous 8 make 9 play 14 To purchase is to — 6 keep 7 buv 15 To be courageous is to be — 1 clean 2 wrong 3 brave 4 careful 5 strange...15 9 tread 7 crush 8 spv 16 To stare is to — 6 gaze 17 A treaty is an — 1 interval 2 idiot 3 agreement 4 experiment 5 implement 17 18 To label is to — 6 carry 7 lower 8 mark 9 hold 10 supply..... 19 To be correct is to be — 1 graded 2 proper 3 different 4 famous 5 forward . . . 19 8 reasonable 9 virtuous 10 skillful 20 7 harsh 20 Expert means — 6 haughty 3 forbid 4 punish 21 To instruct is to — 1 inform 2 admit 9 support 7 saddle 8 frame 22 A sledge is a — 6 garment 5 shame . . . 23 To have sympathy for is to — 1 rejoice 2 praise 3 refuse 4 pity

Go right on to the next page.

8 somber

8 most

4 unite

9 newest

9 flexible

7 least

3 strike

7 massive

2 hurt

48 Minimum means the — 6 largest

49 To sever is to — 1 cut

50 Lithe means — 6 eloquent

10 oldest 48

10 tremulous50

End of Test 2. Look over your work.

DIRECTIONS. Study the samples below carefully.	25 They 1 all unanimously agreed to go25
SAMPLES.	2
A Apples 1 is good	26 Who has $\frac{3}{4}$ taken my ball?
B He 3_4 told me	27 Who ⁵ seen the boys fighting?
	28 Sue sews very ¹ / _{2 good}
1 I 1 ain't got no time to play	29 The paper is ³ nowhere about
2 3 The soldiers they marched along 2 3 4 4 The soldiers	Nothing 5 ever disturbs me
3 I borrowed the money 5 from Tom3 5 6	31 I had hardly come $\frac{1}{2}$ than I had to go 31
1 Me and Sally had a party	32 We don't ³ / _{4 remember} finding a ball ₃₂
⁵ I ³ ain't dressed yet	The tribe is 5 kind of warlike
6 Them cookies are good with milk 6	34 I looked at him and 1 said, "Come in."34
7 1 That 2 That there apple tree is a young one7	35 Yes, I ³ did it
8 The horses 3 are tired	36 Jane asked 5 was Sarah coming
9 Alice is 5 at to her uncle's house.	37 You 1 must have been asleep
She ¹ / ₂ don't know any better	They have all ³ went home
8 ^a →	8⁵→
Don't come 3 unless I send for you 11	39 A book was lying 5 onto the table
Isn't 5 anybody at home?	40 The river has 1 frozen over
Father 1 give me a pencil last week	41 Sarah 3 used to could dance the hornpipe 41
14 3 Yourself and your sisters should go 14	42 I can do that 6 easily.
5 While 6 Although I am ready, I won't go	43 It 1 begun to rain hard
The man 1 swung from the rope	They made the boat 3 themselves.
You have ³ / _{4 given} me much pleasure	45 I didn't know that, 6 either
Who 5 drunk my milk?	46 Who has 1 saw my skates?
The fruit 1 growed on this tree	47 He can't come 3 unless he gets a free ticket. 47
Where is she ³ going?	48 He ⁵ could couldn't scarcely do it
Will you 5 learn me to cook?	49 I have often 1 eaten oranges
Tom is $\frac{1}{2}$ more happier than Fred	The trio $\frac{3}{4} \frac{\text{sang}}{\text{sung}}$ the first number
We 3 were going downtown	51 That was 5 all the farther he would walk 51
24 5 Leave me have the first turn24	52 This is 1 a orange
Go right on to Number 25.	Go right on to the next page.

They caught up with Ralph and $\frac{3}{4}$ we 53	78 Is it 5 you're turn to pitch?
⁵⁴ I ⁵ am in our club four years already. ⁵⁴	79 Betty and Jane ¹ / _{2 are} coming
55 You must have felt 1 uncomfortable. 2 uncomfortably	3 James is the 3 carefulest boy here80
56 I have often 3 spoken of that	81 It is neither true ${}^{5}_{6}$ nor false
The man gave $\frac{5}{6}$ we boys some fish	82 It must be 1 someplace.
She felt his absence $\frac{1}{2}$ deep. $\frac{1}{\text{deeply.}}$ deeply. $\frac{1}{58}$	83 I read ³ that where frost is predicted
⁸ Has the factory whistle 3_4 blown yet? 59	84 Their house is 5 some bigger than ours. 84
60 I 5 can hardly hear you	85 Please 2 take that over there to John 85
61 He is 1 almost the best player I ever knew 61 2 the best player I almost	86 A tall and a short boy 3 is required 86
62 3 Her and I will be partners	87 You 5 ought to save money
8 You look 5 sort of discouraged 63	88 1 We children are sleepy
She sang 1 beautiful.	89 Watching the deer, 3 their path was lost 89
65 This is for 3 whoever gets here first 65	90 The cat is 5 lying on the rug
66 The house is 5 most finished	91 They had $\frac{1}{2}$ came on ahead
9 ^a →	9⁵→
Edison 1 discovered the phonograph67	92 We don't know 3 as he will come 92
68 Mother and I ³ wasn't at home	93 The boys brought 5 there own blankets 93
⁵ I ⁵ sat there about an hour	94 The sun has $\frac{1}{2}$ risen already
70 The vase had $\frac{1}{2}$ broke when it fell 70	95 They were ³ real anxious to go
71 This is the man 3_4 which helped me 71	96 A group of 5 we children will sing.
72 The river 5 rose four inches	97 I 1 expect he must have been there 97
⁷³ He played $\frac{1}{2}$ badly yesterday	98 He is the tallest 3 boy here 98
74 3 But don't forget, however, to write74	99 We 6 can't get in only after school
75 The horse 5 busted a blood vessel 75	100 To whom did you 1 write?
76 It was $\frac{1}{2}$ them who started the game76	End of Test 3. Look over your work.
77 It 3 looks like either Mary or Kate	No. right () × 2 () No. omitted ()
Go right on to Number 78.	Sum ()
·	Subtract 100
0 . 10 15 20 05 30 05 40 45 50 55	Difference () 60 BK 70 7K 80 SK 90 OK 100
R	40 35 30 25 20 15 10 5 0

140 000 001

Answer

DIRECTIONS. Find the answers to these problems as quickly as you can. Write the answers on the dotted lines. Use the margins to figure on.

Answer

- ¹ Mother paid 9 cents for milk and 7 cents for bread. How many cents in all did she pay for these two things?
- ² Betty has 7 dolls, Florence has 8 dolls, and Alice has 6 dolls. How many dolls do they have all together?
- ³ Ann has 17 paper dolls and Mary has 9 paper dolls. Ann has how many more than Mary?
- 4 David bought some jacks. He paid 2 nickels and 6 pennies for them. How many cents did the jacks cost?
- ⁵ Bill has 8 apples. Mary has three times as many. How many apples has Mary?
- ⁶ A pony cost 98 dollars and a calf cost 62 dollars. The calf cost how many dollars less than the pony?
- ⁷ I saved 136 pennies. Father gave me 34 pennies. I earned 118 more. How many pennies did I have then?
- 8 A teacher placed the 128 pupils on the playground in two equal groups for a game. How many did she put in each group?
- 9 Mrs. Black's cupboard has 6 shelves. Each shelf will hold 27 jars of fruit. How many jars of fruit will all 6 shelves hold?
- 10 Donald picked 6 quarts of strawberries. He gave his mother 1 gallon and sold the rest. How many quarts did he sell?
- 11 Yesterday Ann saw 9 robins and 4 bluebirds. Today she saw 7 robins and 8 sparrows. 'How many robins did she see in the two days?

Go right on to Problem 12.

- ¹² Father divided some oranges equally among 3 children. He gave each child 12 oranges. How many oranges did he divide among the 3 children?
- 13 Four families agreed to share the cost of a picnic equally. The cost was \$3.84. How many cents was each family's share?
- 14 The 6 boys of the Stamp Club have 432 stamps in all. How many stamps do these 6 boys have on the average?
- 15 Last year a farm produced 1523 bushels of wheat. This year it produced 1687 bushels. The difference for the two years was how many bushels?
- ¹⁶ Mr. Ellis earns \$225 a month. He pays $\frac{1}{5}$ of this money for rent each month. How many dollars per month is his rent?
- ¹⁷ When candy bars are 3 for 10e, how many can be bought for 40e?
- ¹⁸ Joe spends 14¢ a day and his brother Tom spends 22¢ a day for lunches. How many more cents does Tom spend than Joé for lunches in a school week of 5 days?
- 19 There are 56 pounds of rye in a bushel. How many bushels are there in 3584 pounds of rye?
- 20 A train left Ashland at 8:45 A.M. and arrived at Newton at 11:45 A.M. How many hours did the trip take?
- 21 You know the number of miles per hour that an airplane travels. You know how many hours a trip takes. To find the number of miles traveled, would you add, subtract, multiply, or divide?

Go right on to the next page.

Answer

- ²² Mrs. White used $\frac{1}{2}$ teaspoonful of nutmeg and $\frac{2}{3}$ teaspoonful of cinnamon in making a cake. How many teaspoonfuls of both kinds of spice did she use?
- 23 Mrs. Kay bought a radio for \$75. She paid \$45 in cash and agreed to pay the rest in 6 equal monthly payments. How much will her monthly payments be?
- ²⁴ Andy had 4 yd. of canvas. He used $2\frac{1}{4}$ yd. to make a sail. How many yards did he have left?
- 25 Fred sawed a board into 8 pieces, each 13/4 ft. long. How many feet long was the board at first, ignoring waste in sawing?
- Eight oranges are what fraction of a dozen, in simplest form?
- ²⁷ The distances a motorist drove during each hour of a 7-hour trip were: 43 mi., 37 mi., 34 mi., 41 mi., 42 mi., 35 mi., and 41 mi. How many miles an hour did he average?
- ²⁸ At the rate of $\frac{3}{4}$ mile in 15 minutes, how many miles will a man walk in an hour?
- ²⁹ How many cubic feet of earth must be removed in digging a cellar $10' \times 20' \times 30'$?
- 30 Two cities are 175 miles apart. How many inches apart would these cities be on a map drawn to the scale: 1'' = 100 mi.?
- ³¹ The girls in Ellen's class made 12 pounds of candy for the school sale. The costs were: sugar, $75 \, \epsilon$; chocolate, $10 \, \epsilon$; milk, $10 \, \epsilon$; and butter, $48 \, \epsilon$. They sold the candy for $30 \, \epsilon$ a pound. How much money did they make after paying all expenses?

Go right on to Problem 32.

Answer

- 32 Paul feeds his chickens $\frac{3}{8}$ pk. of grain at each feeding. He has $3\frac{3}{4}$ pk. of grain left. How many feedings has he left?
- 33 Mr. Jackson has \$435.75 in his savings account. He says this is $\frac{1}{6}$ of his total savings. How much are his total savings?
- 34 It snowed steadily from 11:25 P.M. until 6:35 the next morning. How many hours did it snow that night?
- 35 A Model XX-R radio sells for \$75. The cost is .6 of the selling price. What is the cost?
- ³⁶ A rectangular lot is $30' \times 60'$. It is all in lawn except a rectangular pool $5' \times 10'$. How many square feet are in lawn?
- 37 Eight feet of a 32-foot pole are underground. Compare the underground portion with the total length of the pole as a decimal fraction.
- 38 The area of a 5-ft. square is how many square feet more than the area of a square containing 5 square feet?
- ³⁹ A principal said that .64, or 320, of the pupils in his school have savings accounts. How many pupils are in the school?
- 40 One year a man earned a total of \$1869.45. To the nearest cent, what was his average earning per month?

End of Test 4. Look over your work.

DIRECTIONS. Look at Example 1 below. It tells you to add 3 and 2. 3 and 2 are 5; so 5 is written as the answer. The answer 5 to Example 1 has also been written in the space numbered 1 in the column marked Answer at the right. Now look at Example 2. It tells you to subtract 1 from 4. The answer is 3; so the 3 is also written in the space numbered 2 in the column marked Answer at the right.

Now do the other examples in the same way. Begin with Example 3 and work as quickly as you can without making mistakes. Look carefully at each example to see what it tells you to do.

Be sure to copy your answers in the column at the right.

1 Add	² Subtract	3 Add	4	5	Answer
3 2 5	4 1	2 <u>5</u>	3 × 9 =	3)216	1 <u>5</u> 2 <u>3</u>
5	3				
					3
					4
6 Multiply	7 Subtract	8 Subtract	9	10 Add	5
306	1 5 4 6 3	5 <u>3</u>	18 ÷ 2 =	2 8 7 7	6
				9 86	7
			,		8
					9
44	40	40		15 Challenger	10
Subtract 5 4 7	12 Add 1689	¹³ Multiply 9093	14 Add 289	Subtract 937146 419087	11
285	5 3 1 4 3 7 7 7 4 2 8 8	8	188 396 78	419007	12
					13
					14
•					15
16	\$	Multiply	19	20 7\2.5.C	16
7)4921	4)\$3 8.1 6	398 400	24)96	7)3 5 6	17 \$
					18
					19
		Go righ	t on to Example 2	l on the next page.	20

## 22 Multiply 23 Add 24 Answer 5)3504 582 172 8 = 7 22	Stanf. Inter. Partial: Form D	TEST 5. ARITHMETIC COMPUTATION (Cont'd	<i>I</i>)
24	_	Multiply Add $582 \frac{1}{12} \frac{6}{8} = 7$	
Subtract Subtr		Multiply Multiply 679 \$ 4.73 $\frac{3}{4} \times \frac{1}{4} =$	24
33 34 Add 35 Subtract 36 32	Subtract $\frac{1}{2}$	7 5 2 8 3.3 8 6 2 4 3	27 \$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		94 PE 20	30
37 38 Multiply 39 40 Add 41 $\frac{1}{6} \times \frac{4}{5} = \begin{array}{c} 38 \\ 100 \end{array} \qquad 4 \div \frac{2}{5} = \begin{array}{c} 40 \\ 4\frac{1}{3} \\ \frac{11}{2} \end{array} \qquad 8).072$ $38 \\ 39 \\ 39 \\ 39 \\ 39 \\ 39 \\ 39 \\ 39 \\ $	62)40796	5 3 2.9 4 5 8 $\frac{2}{3}$ 2 8)2 5 7 6 6 0 0.8 2 7 3 $\frac{3}{5}$ 8 2.9 6 1 1.7 8 8	33
		Multiply Add 2.478 $4 \div \frac{2}{5} = 4\frac{1}{3}$ 8).073	36
			39

42	43	⁴⁴ Find the average	45	Answer
7 2)3 0 9 6 5	$2\frac{4}{5} \times 1\frac{7}{8} =$	1 5 ft. 9 ft. 2 6 ft. 1 4 ft.	13)24701	43
				44ft.
				45
		•		
46	47 Add	· 48	49	46
$\frac{1}{4} \div 3 =$	4 1	$\frac{3}{5} \div 2 \frac{1}{10} =$	$\frac{9}{10} \times 4 \frac{7}{12} =$	47
	27 8 5			48
				49
`				
<u>.</u>	_			50
Multiply .0 4 8	51 282)1 5 4 2 5 4	$2\frac{1}{16} \div 1\frac{1}{10} =$	51
			- 16 · · 10	52
				02
53 Add	54		55 Subtract	53lboz
1 1 lb. 1 0 oz.	.8 0	.4	6 yr. 3 mo. 2 yr. 9 mo.	54
9 lb. 6 oz. 8 lb. 4 oz.			2 yr. 9 mo.	55 yr. mo.

56	57 C. 1.4	58	Answer
	Subtract	20/03	
.0 0 8).3 2	5	.3 6)6.3	56
	215		57
			58
	4	-0	
BRYANT			
WHITTIER LOWELL	50 XX71441 3:-3	t 1-4 4b W7-i4i	50
CLEMENS HARRIS FIELD	according to Figure 1?	year or two later than Whittier,	59
000000000000000000000000000000000000000			
Fig. 1			
80			
70 Average monthly			
50 40	60 During what month w	as the average temperature one	60
20	half that of June, accor		00
Apr. Apr. Mary May Jul.			
Lieb Agy May July May May May May May May May May May Ma			
	,		
4	61 What is the area of t	the football field in Figure 3 in	61 sq. ft.
190	square feet?		
300 ft.			
Fig. 3			
	-/-		
	what is the volume in	cubic inches of the shipping box	62 cu. in.
8	shown in Figure 4?		
60 in.			
Fig. 4		End of Test 5. Look over your	- monte

16	TEST 6.	SPELLING	Stanf. Inter. Partial: Form D
1		26	
2		27	
3		28	
4		29	
5		30	
6		31	
7	·	32	
8		33	
9		34	
.0		35	
	,	36 ·	
2		37	
.3		38	
14		39	
15		40	
16		41	
17		42_	
18		43	
		44	
20		45	
21	·	46	
22		47	
23		48	
24		49	`
 25	·	50	
Grade	NUMBER RIGHT 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 15 Equated score 20 20 21 21 22 22 23 24 25 25 26 26 27 28 28 29 30 30 31 33	20 21 22 23 24 25 26 27 28 29 30 31 32	33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
4 Grade			
5	Equated score 20 21 22 24 25 26 27 28 29 31 32 33 34 35 35 36 37 37 38 39	14 14 17 18 14 15 15 17 18 19 19 19 19 19 19 19	21 22 25 25 25 25 25 25

Number Right 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 50 51 52 53 53 54 55 56 57 58 58 59 60 61 62 63 64 65 67 68 60 71 72 74 77 79 50

Grade

MOONEY PROBLEM CHECK LIST

1950 REVISION

Ross L. Mooney

Bureau of Educational Research
Ohio State University

T	JUNIOR HIGH					
	SCHOOL FORM					

Age Date	of birth	Boy	Girl
	Name of	•	
school	school		
Name of the person to	whom		
you are to turn in t	whom his paper		
	·		
Your name		Date	

DIRECTIONS

This is a list of some of the problems of boys and girls. You are to pick out the problems which are troubling you.

Read the list slowly, and as you come to a problem which is troubling you, draw a line under it. For example, if you are often bothered by headaches, you would draw a line under the first item, like this, "1. Often have headaches."

When you have finished reading through the whole list and marking the problems which are troubling you, please answer the questions on Page 5.

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522 Fifth Avenue, New York, N. Y.

50-124T ited in U.S.A. HPD

HF

MWF

BG

PG

SC

TOTAL

DIRECTIONS: Read the list slowly, and as you come to a problem which troubles you, draw a line under it.

- 1. Often have headaches
- 2. Don't get enough sleep
- 3. Have trouble with my teeth
- 4. Not as healthy as I should be
- 5. Not getting outdoors enough
- 6. Getting low grades in school
- 7. Afraid of tests
- · 8. Being a grade behind in school
 - 9. Don't like to study
- 10. Not interested in books
- 11. Being an only child
- 12. Not living with my parents
- 13. Worried about someone in the family
- 14. Parents working too hard
- 15. Never having any fun with mother or dad
- 16. Spending money foolishly
- 17. Having to ask parents for money
- 18. Having no regular allowance
- 19. Family worried about money
- 20. Having no car in the family
- 21. Not allowed to use the family car
- 22. Not allowed to run around with the kids I like
- 23. Too little chance to go to parties
- 24. Not enough time for play and fun
- 25. Too little chance to do what I want to do
- 26. Slow in making friends
- 27. Bashful
- 28. Being left out of things
- 29. Never chosen as a leader
- 30. Wishing people liked me better
- 31. Being nervous
- 32. Taking things too seriously
- 33. Getting too excited
- 34. Being afraid of making mistakes
- 35. Failing in so many things I try to do

- 36. Too short for my age
- 37. Too tall for my age
- 38. Having poor posture
- 39. Poor complexion or skin trouble
- 40. Not good looking
- 41. Afraid of failing in school work
- 42. Trouble with arithmetic
- 43. Trouble with spelling or grammar
- 44. Slow in reading
- 45. Trouble with writing
- 46. Sickness at home
- 47. Death in the family
- 48. Mother or father not living
- 49. Parents separated or divorced
- 50. Parents not understanding me
- 51. Too few nice clothes
- 52. Wanting to earn some of my own money
- 53. Wanting to buy more of my own things
- 54. Not knowing how to buy things wisely
- 55. Too little spending money
- 56. Girls don't seem to like me
- 57. Boys don't seem to like me
- 58. Going out with the opposite sex
- 59. Dating
- 60. Not knowing how to make a date
- 61. Being teased
- 62. Being talked about
- 63. Feelings too easily hurt
- 64. Too easily led by other people
- 65. Picking the wrong kind of friends
- 66. Getting into trouble
- 67. Trying to stop a bad habit
- 68. Sometimes not being as honest as I should be
- 69. Giving in to temptations
- 70. Lacking self-control

QUESTIONS

									QUE	31101	10									
1.	What	prob	lems	are	troub	ling	you	most?	Write	about	two	or	three	of	these	if	you	care	to.	
2.	Would	l you	like	to sp	oend n	nore	time	in sch	ool in t	rying t	to do	o so	methi	ng	abou	t sc	me	of yo	ur	problems?
3.	Would	l you	like	to ta	alk to	some	eone	about	some of	your	probl	ems	;?							

HPI

HF

MW

BG

PG

SC

TOTA

141. Can't hear well	176. Nose or sinus trouble
142. Can't talk plainly	177. Trouble with my feet
143. Trouble with my eyes	178. Not being as strong as some other kids
144. Smoking	179. Too clumsy and awkward
145. Getting tired easily	180. Bothered by a physical handicap
146. Textbooks hard to understand	181. Dull classes
147. Trouble with oral reports	182. Too little freedom in classes
148. Trouble with written reports	183. Not enough discussion in classes
149. Poor memory	184. Not interested in certain subjects
150. Afraid to speak up in class	185. Made to take subjects I don't like
151. Family quarrels	186. Clash of opinions between me and my parents
152. Not getting along with a brother or sister	187. Talking back to my parents
153. Not telling parents everything	188. Mother
154. Wanting more freedom at home	189. Father
155. Wanting to live in a different neighborhood	190. Wanting to run away from home
156. Needing a job during vacations	191. Afraid of the future
157. Needing to know my vocational abilities	192. Not knowing what I really want
158. Needing to decide on an occupation	193. Concerned about military service
159. Needing to know more about occupations	194. Wondering if I'll ever get married
160. Wondering if I've chosen the right vocation	195. Wondering what becomes of people when they die
161. Not knowing what to do on a date	196. Learning how to dance
162. Girl friend	197. Keeping myself neat and looking nice
163. Boy friend	198. Thinking too much about the opposite sex
164. Deciding whether I'm in love	199. Wanting more information about sex matters
165. Deciding whether to go steady	200. Embarrassed by talk about sex
166. Getting into arguments	201. Being jealous
167. Getting into fights	202. Disliking someone
168. Losing my temper	203. Being disliked by someone
169. Being stubborn	204. Keeping away from kids I don't like
170. Hurting people's feelings	205. No one to tell my troubles to
171. Feeling ashamed of something I've done	206. Sometimes lying without meaning to
172. Being punished for something I didn't do	207. Can't forget some mistakes I've made
173. Swearing, dirty stories	208. Can't make up my mind about things
174. Thinking about heaven and hell	209. Afraid to try new things by myself
175. Afraid God is going to punish me	210. Finding it hard to talk about my troubles
- ·	-

- 71. Not eating the right food
- 72. Often not hungry for my meals
- 73. Overweight
- 74. Underweight
- 75. Missing too much school because of illness
- 76. Not spending enough time in study77. Too much school work to do at home
- 78. Can't keep my mind on my studies
- 79. Worried about grades 80. Not smart enough
- 81. Being treated like a small child at home
- 82. Parents favoring a brother or sister
- 83. Parents making too many decisions for me
- 84. Parents expecting too much of me
- 85. Wanting things my parents won't give me
- 86. Restless to get out of school and into a job87. Not knowing how to look for a job88. Needing to find a part-time job now89. Having less money than my friends have

- 90. Having to work too hard for the money I get
- 91. Nothing interesting to do in my spare time
- 92. So often not allowed to go out at night
- 93. Not allowed to have dates
- 94. Wanting to know more about girls
- 95. Wanting to know more about boys
- 96. Wanting a more pleasing personality 97. Being made fun of
- 98. Being picked on
- 99. Being treated like an outsider
- 100. People finding fault with me
- 101. Not having as much fun as other kids have
- 102. Worrying
- 103. Having bad dreams
- 104. Lacking self-confidence
- 105. Sometimes wishing I'd never been born

- 106. Often have a sore throat
- 107. Catch a good many colds
- 108. Often get sick
- 109. Often have pains in my stomach
- 110. Afraid I may need an operation
- 111. Don't like school
- 112. School is too strict
- 113. So often feel restless in classes
- 114. Not getting along with a teacher115. Teachers not practicing what they preach
- 116. Being criticized by my parents117. Parents not liking my friends
- 118. Parents not trusting me
- 119. Parents old-fashioned in their ideas
- 120. Unable to discuss certain problems at home
- 121. Choosing best subjects to take next term122. Deciding what to take in high school123. Wanting advice on what to do after high school

- 124. Wanting to know more about college
- 125. Wanting to know more about trades
- 126. No place to entertain friends127. Ill at ease at social affairs
- 128. Trouble in keeping a conversation going129. Not sure of my social etiquette130. Not sure about proper sex behavior

- 131. Awkward in meeting people132. Wanting to be more like other people133. Feeling nobody understands me134. Missing someone very much135. Feeling nobody likes me

- 136. Being careless
- 137. Daydreaming138. Forgetting things
- 139. Being lazy
- 140. Not taking some things seriously enough

ROOM USE ONLY

