A COMPARISON OF CHILDREN'S SOCIAL VALUES IN STORY COMPLETIONS BY CULTURE-GROUPS

Thesis for the Degree of M. A.

MICHIGAN STATE UNIVERSITY

David John Erickson

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A COMPARISON OF CHILDREN'S SOCIAL VALUES IN STORY COMPLETIONS BY CULTURE-GROUPS

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David John Erickson

A THESIS

Submitted to

Michigan State University
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ABSTRACT

The Anderson Incomplete Stories have been administered to children in eight countries speaking seven languages. For this study data have been taken from children in twelve principal locations in the eight countries. Completions to the Football Story, the fifth story in Series A, were written by 5,068 seventh-grade children in their native languages and translated into English.

For this study 150 seventh-grade children, 75 boys and 75 girls, with two exceptions, were drawn in random order from the peel of story completions from each of the twelve locations listed below.

The locations were arranged into four culture-groups as follows: Angle-american culture-group: Benton Harber, Michigan; Knoxville, Tennessee; and Birmingham, England. Scandinavian culture-group: Helsinki, Finland; Drammen, Norway; and Stockholm, Sweden. Latin-american culture-group: Mexico City; San Juan, Puerto Rico; and Ric de Janeiro, Brasil.

German culture-group: Karlsruhe, Hamburg, and Hunich, Germany.

The two aims of the study were to determine if the secial values of the children differed <u>between</u> the culture-groups and to determine if the social values of the children from locations <u>within</u> culture-groups differed from one another. These problems were stated as hypotheses:

Hypothesis I: There are differences between culture-

Hypothesis II; Lecations de not differ within a culture-group.

Tive categories comprising 35 items were used for coding and recording the story completions to the Football
Story. Certain items in the coding categories were arranged
into clusters classified as acceptable, net acceptable, or
not avaluated in terms of hypothesised and defined social
values, based on general cultural expectations of children
in the United States.

The frequencies of tallies in the item clusters were compared by a method of analysis using the components of the total chi-square. This method provided a means of testing Hypothesis I with the between-group chi-square components and Hypothesis II with the within-group chi-square components onts.

Hypethesis I that there were differences between the values of the children from the different culture-groups was accepted. Without exception the between-group chi-squares were significant beyond the .001 level. The rank order of culture-groups in acceptable social values wass 1, Angle-american; 2, Scandinavian; 3, Latin-american; and 4, German.

Hypothesis II was that the culture-groups would be found to be homogeneous on the five categories examined. Instead, the culture-groups were found to be beterogeneous in the following number of categories: Angle-american, five; Seandingvian, two; Latin-american, four; and German, four.

Hypothesis II that the children within the same enturegroups would make similar choices and hold similar social
values when writing their story completions was not supported.

Rach culture-group had one location deviant from the two other locations. Deviant locations high in acceptable social values were Dramon and Rio de Janeiro; deviant locations low in acceptable social values were Birmingham and Karlerube.

Approved Hard A Austrian
Signature of Kajor Professor

Date 12 May 1961

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This study was made while the writer held an appointment as Special Graduate Research Assistant in the Program of Research in Creativity,

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I. INTRODUCTION

Fackeround

The Anderson Incomplete Stories, Series A and Series B
(3,4) were developed in 1952 and 1953. The text of the 11
incomplete stories is presented in Appendix A. Each story
presents a social conflict situation to which children are
asked to write an ending. The incomplete stories contain
situations with child-parent, child-teacher, and child-child
relationships. They were designed as a projective device in
the hope that they would be sensitive to social awareness,
social inventiveness, and social values of adolescents.

The development of this tool stemmed from the knewledge that there are individual differences in the skills and techniques employed by children in conflict situations and that such differences are due, in part, to differences in cultural influences. Hypotheses underlying the use of the Anderson Incomplete Steries are thats children write from their own perceptions and experiences; if human relations differ in different locations will have had different experiences; children from different locations will write different story completions to an incomplete social conflict situation; and that the choices the children make when writing the story completions will reflect their social values.

The first story completions were gathered from children in Karlsruhe, Germany, in 1952. In 1959 the story completions of children in Rio de Janeire, Brasil, brought the number of story completions to ever 10,000. Story completions have been written mainly by fourth and seventh-grade children. Table 1 gives a listing of the principal locations where the stories were administered to seventh-grade children. The children wrote in their native languages and their story completions have been since translated into English.

Table 1. Numbers of seventh-grade children by location who completed the Feetball Story with dates of research administration.

administration.		
Location	Date of administration	Number of children
Karlsruhe, Germany	Sep. *52	821
Knezville, Tennessee	Apr. *53	220
Mexico City, Mexico	Nay *53	1153
Hamburg, Germany	Jan. 154	487
Munich, Germany	Feb. *54	328
Birmingham, England	Mar. *54	435
Drammen, Norway	Mar. *54	223
Stockholm, Sweden	Kar. *54	158
Helsinki, Finland	Apr. *54	209
San Juan, Puerto Rice	Dec. *56	531
Benton Harbor, Michigan	Jan. *57	285
Rie de Jameire, Brazil	Aug. • 59	218
	Tetal	5068

The Football Story

This study is based on the Football Story, the fifth story from Series A of the Anderson Incomplete Stories, which reads as follows:

George and Tom are playing with a football. They know that they should not play football in the narrow space in front of the house. George gives the ball a strong kick and the ball hits a window and makes a big crack in it. Tom thought that someone had appeared behind the window. No one could have seen who kicked the ball against the window.

Finish this story with a few sentences. Tell how the two boys felt about it and what they did.

The following are examples of children's story completions, each identified by the location and number of the childs

Knx 004: George's mother went to the doerway and called him in. She said "You have delibertly disebeyed me so I shall have to keep you from playing in the football game tomorrow." George felt miserable but he knew he deserved what he got so he was quite. (sic)

Ehm 111: George felt frightened and wanted to run away but Tem says that he will share the blame if George would come with him to own up. In the end they did but no-one came to the deer. They went away with a clear contienses. (sic)

Drm 222: The boys walked in and said that they were the enes who had done it. They took their savings and bought a new window.

Ham 675: The one however who came to the window asked who had done it. The boys said that both of them had done it. Then the man decided and the boys had to pay the bill for the new window. In that incident Manfred and Karl do not play football in that place again.

Kar 363: Manfred and Karl were afraid of their father, and therefore did not want to say it. In the evening Manfred and Karl went to the people whose window they kicked in.

The coding manual

A coding manual for content analysis of the story completions has been developed. At the beginning, several hundred story completions from different locations were read.

Actions, feelings, and intentions which seemed to be mentioned frequently were noted. General headings or major classifications for coding different parts of the story completions
were established. The general headings were called categories of behavior. A category is defined as an area of behavior or a topic of classification which provides a means
of referring to a particular episode or development or to a
situation of interpersonal relationship included in a story
completion.

The system of classification is carried one step further by listing specific kinds of behavior, called <u>items</u> of behavior, that are included under the heading of a category.

The coding manual for the Football Story contains 16 defined categories subdivided into items, each defined and accompanied by instructions for its use and by examples of coding. An abstract of the coding manual is included in Table 2. Table 2 lists each of the categories and its respective items. The number assigned to each category refers to the number of the column on the IEM card to which that category has been assigned.

The coding manual for the Football Story was developed in group conferences during the period from November 1959 to May 1960. Numbers of the group were Dr. Harold H. Anderson, Dr. Gladys L. Anderson and Special Graduate Research Assistants David J. Brickson and Barbara M. Erickson.

Table 2. An abstract of the Football Story coding manual.

21 First Character 1 Boys 2 Parent 3 Owner & Others-unclear 22 Owner-Parent Identity 1 Owner and Parent separate 2 Owner and Parent same 3 Not clear 4 No mention of either 31 Kicker's Intention Reserving the Symer 1 Include 2 Exclude them include 3 Exclude 4 Include them exclude 4 No information 6 Kicker not mentioned 32 Companion's Intention fegarding the Owner 1 Include 2 Exclude them implude 3 Exclude 4 Include them exclude 5 No information 6 Companion not mentioned 33 Boys' Identity Revealed to the Owner 1 Voluntarily 3 Involuntarily 1 After delay 4 Not clear whether or how 5 Not revealed 34 Beys! Intention Recarding the Parent AFTER Identity or Restitution 1 Include 2 Exclude them include 3 Exclude 4 Include them exclude BEFORE Identity or Rostitution 5 Imelude 6 Exclude them include 7 Exclude 8 Include them exclude 9 Not clear 0 No information 35 Boys' Identity Revealed to Parent 1 Voluntarily 2 After delay 3 Involuntarily 4 Not clear whether or hew 5 Not revealed

36 Restitution by Boys 1 Voluntary-completed

2 Volumtary-plan, intent, or fantasy

6 3 Pelayed -- completed 4 Delayed -- plan. intent. or fantasy 5 Involuntary 6 Not clear whether er how 7 Apology-confession without restitution 8 Boys made no restitution; others may 9 No mention of restitution by anyone 37 Poyse Clandestine Restitution 1 Clandestine 2 All other stories 38 Accord/discord between the Beve 1 Accord 2 Discord then accord 3 Discord & Accord then discord 5 No information or only one boy mentioned 41 Behavior of Cwner or fantagy of Owner's Behavior 1 Acknowledging, supportive, resourceful 2 Restrictive 3 Waiver of Restitution 4 Non-confronting 5 Punitive: nem-physical 6 Negative statement of 41-5 7 Punitive: physical 8 Negative statement of 41-7 9 Usurping 8 No mention as above or at all 42 Ser of Owner 1 Male 2 Female) Plural comership or sex not clear Owner not mentioned 51 Bebayier of Parent or Tantesy of Parent's Nebayier 1 Acknowledging, supportive, resourceful 2 Restrictive 3 Vaiver of Restitution 4 Non-confronting 5 Punitive: new-physical 6 Megative statement of 51-5 7 Punitive: physical 8 Negative statement of 51-7 9 Usurping O No mention as above or at all 52 Restitution by Parent 1 Shared with beys 2 Voluntary restitution; usurping 3 Involuntary 4 No Restitution by parent; ethers may 5 Parent mentioned; no mention of restitution 6 Parent not mentioned 53 Sex of Parent 1 Male 2 Female

3 Plural; parents; unclear

4 Parent net mentioned

The arrangement of categories and items in the coding manual was specifically done as an aid to the eeders. The eategories dealing with each of the different characters in the stery completions, kicker, companion, ewner, and parent, were arranged into groups. That is, the categories dealing with the actions or intentions of the boys were put first in the coding manual followed by the categories for the ewner and them by those for the parent.

The arrangement of the items within the categories fellowed a rank ordering of the items of behavior according to a cultural value system agreed upon by the research group and discussed below. The most acceptable behavior has been listed first.

Training of goders

Once the coding categories and items had been assembled in the coding manual of instructions, the training program for the codors was begun. During this period two codors completions. The training program had a dual purpose. It was primarily a period during which the codors learned to code the story completions independently and consistently to a pro-determined level of agreement of approximately 90 per cont. In addition, however, this period was used to re-phrase the coding manual for more precision or completeness of its instructions, definitions, and illustrations.

^{*}The two coders were David J. Erickson and Barbara N. Erickson.

After each exercise of coding, the percentage of agreement between the two coders was computed by the fellowing fermula which has been used in previous analyses of the Anderson Incomplete Stories data (16): Per cent agreement

Twice the number of items in agreement X 100 Total number of items recorded by two orders

Frequent revisions and changes in the coding manual followed discussions of disagreements in the coding. With clarification of the definitions in the manual, subsequent percentages of agreement increased.

Once the percentage of agreement was consistently greater than 90%, the reliability of the coding was considered to be sufficient for research purposes. The training period was ended and the coding manual was declared closed to further revision. The process of coding the entire sampling of story completions was begun.

Table 3 shows the percentages of agreement that were obtained during the training period from Tebruary 1960 to June 1960. The coding of the story completions for research purposes was begun in June 1960 and completed in September 1960.

Table 3. Percentages of agreement of two independent coders in coding with 91 items in 16 categories during coding training period.

Date 1960	Location	Numbers of Children	Items of Ceder 1	Items of	Rumber of Agreements	Per cent Agreement
Tob 1	4 Mexico City	44	499	488	399	81
	Braunschweig	28	312	321	255	82
	Karlsruhe D rammen	27 40	303 453	701 446	240 359	79 8 0
Mar	1 Karlsrube	27	307	302	261	86
	Drammen	40	452	445	391	87
Apr 1	6 Hamburg	29	408	409	371	91
	Knozville	20	280	280	227	82
Nay 1	7 Mexico City	33	496	496	454	91
	Brausschweig	31	474	472	430	91
May 1	8 Helsinki	28	421	421	377	89
	Karlsrube	18	272	274	240	88
Nay 1	4 Drammon	39	602	601	490	81
May 3	0 Birmingham	34	511	512	468	91
Jun 1	,2 All locations	135	2065	2053	1944	94
Jun	6 Rio do Jameiro	43	428	426	418	78
Jun 1	0 Stockholm	25	363	362	328	91
Jam 6	1 Karlsrube	28	432	431	395	92

^{*}Codor 1 was David J. Erickson; Codor 2 was Burbara N. Brickson.

^{**}Examples of story completions selected for the coding manual.

II. SOCIAL VALUES

Feshay (14), in 1949, pointed out the necessity for evaluating children's development in social learning as a means of evaluating the school curriculum, saying that "one of the chief reasons for having a medern curriculum is its contribution to the social development of children and to the development of skills necessary in a democracy." He indicated that the notion of social learning was not abstract and intangible but was observable and therefore measurable. What, then, are those "skills?" Perhaps one should ask the question that Farber (13) raised: What should a properly brought-up child be?

Underlying the answer to this question is the basic hypothesis of this study (and the larger program of which the study is a part), namely that each culture has its own set of rules for bringing up children. Some of the rules are shared with other cultures, some are unique. One basic "rule" emerging throughout the Vestern world is a belief in the importance and dignity of the individual human being (21).

It should be remembered that the Anderson Incomplete Stories are considered to be a projective instrument (4). Frank (15), the originator of the term projective technique, suggested as a definition of the term that a projective method involves the presentation of a stimulus situation selected or constructed because its meaning will not be that arbitrarily chosen by the experimenter. Rather, the subject imposes his private, idiosyneratic meaning and erganization to the stimulus. The assumption is made that the individual's erganization of the relatively unstructured stimulus situation is indicative of basic trends in his perception of the world and his response to it (31).

From the content of what the child writes, inferences may be drawn about his moods, attitudes, <u>yalung</u>, ideologies, and conception of himself.

It was mentioned above that during the development of the coding manual the items of some of the categories were arranged in rank order and evaluated. When the members of the research group ranked the items they did so in terms of social values, values which could be hypothesised as an "ideal" for the United States. Coding items which were interpreted as indicative of the importance and dignity of the individual human being were ranked highest and evaluated as acceptable. Items which did not most this criterion were evaluated as not acceptable. Some items were not avaluated.

The coding manual was developed as a means of determining certain social values of each child who wrote a completion to the Football Story. The social values of the children are interpreted from the coding items in which their story completions were recorded in the several coding categories. From these social values of the children, inferences may be made about the social values of their parents, about the social values of their parents, about

For an illustration of the ranking and evaluation of the coding items, consider Category 31, <u>Kicker's intention</u> regarding the emag. The first item (31-1) of this category, the kicker's immediate, spontaneous intention to include or to communicate the facts of the accident to the ewner, has been regarded as demonstrative of an "ideal" or most acceptable behavior for a child to choose to write in his story completion. The remaining items in this category record less acceptable behavior. That is, it is less acceptable for the child to choose to write that the kicker intended first to run away and later to return to the ewner (31-2) because the choice of the child indicates an initial besitation to face the cuner.

For the child to choose to write that the kicker's intention was to exclude the owner or to keep the facts of the
accident from the owner (31-3) is for the child to choose an
alternative that is <u>not acceptable</u>. For is it acceptable
for the child to choose to write that the kicker's intention changed from an intent to include to an intent to exclude the owner (31-4) because the choice of the child indicates an unreadiness to face the owner.

He evaluation was placed on the last two items of Category 31 which record that there was no information about the kicker's intention regarding the owner (31-5) or that the kicker was not mentioned in the story completion (31-6). However, one could say that the child who chose to write a story completion which could be recorded in either of these

items was not exhibiting acceptable behavior because the child did not or could not face the conflict situation.

The five categories

Five of the 16 categories of the coding manual for the Football Story record behavior, feelings, or intentions of the boys in relation to the owner and to each other. The five categories have been selected for analysis in this study for three reasons: (1) they include statements pertaining to the intentions and behavior of the boys, (2) more meaningful psychological content and finor cultural differentiations were anticipated, and (3) the five categories were expected to be more sensitive to the social values of the children as defined for this analysis.

The five entegories are:

Category 31, <u>Kicker's intention recarding the owner</u>. Category 31 records the intention of the kicker regarding the ewner; whether it was to include the owner in the situation and to inform him of the facts of the accident, or whether it was to exclude the owner from the situation and to keep from him the facts of the accident.

Category 32, <u>Commanion's Intention recarding</u>
<u>the erms</u>. The same definitions, conditions, examples, and values are employed in both Category
31 and Category 32.

Category 33, Born' identity revealed in the event. Category 33 records the manner in which the boys' identity was revealed to the ewner. In this eategory there is no differentiation of kicker from companion.

Category 36, <u>Restitution by the hove</u>. Category 36 records the manner in which the beys made restitution to the owner for the damaged window. In this category there is no differentiation of kicker from companion.

Category 38, <u>Accord/discord between the boys</u>. Category 38 records the manner in which the boys related to each other in the story completion.

Item elusters

The items of each of the five categories were combined into three "clusters." The clustering was done because with samples as small as 150 the frequency of tallies on several items was too low to be treated statistically. Related items were therefore combined. In the first four of the five categories the clusters exemplified againstable social values, not againstable social values, not againstable social values, and not avaluated according to the values discussed above. Comparisons sould thus be made across categories.

The item clusters in Category 38, Aggard/diseard haimage the hard, have not been evaluated. Some children
chose to have the boys in accord run away in their story
completions which would be not aggardable, while other
children chose to have the boys act in accord and together
reveal their identity to the owner which would be aggardable.
Similarly, if one boy ran away while the other told the
owner, the intention of the boy who teld the owner was, in
the coding, given priority over acting in discord.

Less than 7% of the story completions in each of the 12 locations were "not clear" and were recorded in Item 4 of Gategory 33, Bexa' identity revealed in the same. Item 33-4 which had not been evaluated was thus combined with Item 33-5, "boys' identity was not revealed," which had been

evaluated as net acceptable. The resulting item eluster retained the evaluation of net acceptable.

similarly, less than 4% of the story completions in each of the 12 locations were recorded in Item 6, "not clear" of Category 36, Restitution by the hexa. Item 6 was not avaluated. Items 7, 8, and 9 had been evaluated as not acceptable because restitution was not made. When Items 6, 7, 8, and 9 were clustered the evaluation of not acceptable was retained.

Some of the details of the data were lest because of the combinations of coding items that were necessary. However, even with less detailed data, it was thought that the cultural differences would be sufficiently large to be revealed.

One piece of information that was lest concerned the immediacy of the action of the boys toward the owner. Each of the five eategories used in the study contains items for recording the immediacy of the actions or intentions of the boys and this information was not differentiated in the clusters of the items.

The categories and clusters of items were arranged as

Category 31, Kicker's intention regarding the emer

Acceptable behavior -- include

- 1 Kicker's intention was to include the evmer
- 2 Kicker's initial intention to exclude then to include the owner

Not acceptable behavior -- exclude

- 3 Kicker's intention was to exclude the owner
- 4 Kicker's initial intention to include then to exclude the owner.

Not evaluated -- no information

- 5 No information about the kicker's intention regarding the owner
- 6 The kicker was not mentioned

Category 32, Companion's intention regarding the owner

The same items, clusters of items, and values in Category 31 were used in Category 32.

Category 33, Beys' identity revealed to the semen

- Acceptable behavior--voluntarily or after delay
 - 1 Boys revealed identity voluntarily
 - 2 Boys after delay (voluntarily) revealed identity

Not acceptable behavior -- involuntary

3 Boys identity was discovered or revealed involuntarily to the owner

Not acceptable behavior -- not revealed, plus not

- 4 Not clear whether or how boys' identity was revealed
- 5 Beys! identity was not revealed to owner

Category 36, Restitution by the here

Acceptable behavior-veluntary or delayed

- 1 Boys' completed veluntary restitution
- 2 Boys' voluntary plan, intention, fantasy concerning restitution
- 3 Boys' completed delayed (veluntary) restitution
- 4 Boys' delayed (voluntary) plan, intention, fantasy concerning restitution.

Not acceptable behavior -- involuntary

5 Boys* involuntary restitution

Not acceptable behavior -- no restitution, plus

- 6 Not clear whether or how boys made restitution
- 7 Boys' apelegy-confession without restitution
- 8 Boys made me restitution
- 9 No montion of restitution by anyone

Category 38, Accord/discord between the beve

- Not evaluated-accord

 - 1 Boys accord 2 Boys initial discord followed by accord

Not evaluated -- discord

- 3 Boys' discord 4 Boys' initial ascerd followed by discord

Not evaluated -- no information

5 No information as to the boys' accord or discord

TII. AIMS OF THE STUDY

Vith the quantification of the data in terms of social values, one avenue of exploration open to investigation was an analysis of the anthropological, sociological, and psychological implications of the frequencies (or percentages) of story completions recorded in each of several evaluated item clusters. However, the investigator has chosen to report the findings of differences between the various locations studied, leaving conclusions to the reader.

In previous analyses of the children's completions to the Anderson Incomplete Steries attention has been focused on comparing the locations, one with each of the others. In these analyses there were suggestions of cultural trends. That is, certain locations seemed to cluster together frequently. What has not been undertaken is a comparison of the several locations which together represent "culture-groups," one group with each of the others. The first aim of this study is a comparison of social values between culture-groups of locations.

Cattell(8) has suggested as criteria for determining the similarity of locations which represent culture-groups "common root language, common historical diffusion from a center, common historical trauma, similar geography, similarity of religion, and similarity of race." Vith those criteria, the 12 locations included in the study were arranged into four culture-groups of three locations cach as

shown below in Table 4.

Table 4. Twelve locations arranged into four culture-groups of three locations each.

Culture-group	Lecation
Angle-american	
	. Benton Harber, Michigan
	k Knexville, Tennessee
	. Birmingham, England
Soandinavian	
1	. Helsinki, Finland
2	. Drammen, Nerway
3	. Stockholm, Sweden
Latin-american	
1	. Mezice City, Mexice
.	. San Juan, Puerte Rice
3	, Rio de Jameiro, Brazil
G orman	
1	. Karlsrube, Germany
2	. Hamburg, Germany
3	. Nunich, Germany

A more complete description of each location is found in Appendix B.

The three locations of Benton Harbor, Knoxville, and Birmingham were arranged into the Anglo-american sulture-group. Historically the United States is the offspring of England. Thus, the language, sultural traditions, and logal traditions are shared by these two countries.

Helsinki, Drammen, and Steckhelm were placed together in the Seandinavian culture-group. Often the name Scandinavian is used to designate the three kingdoms of Herway, Sweden, and Denmark, three countries which share closely related languages and a common mode of life (11). Denmark was excluded from the culture-group because it is not represented in the sample of locations. Helsinki was added to the Scandinavian culture-group because Finland culturally resembles in many respects Sweden with which Finland was united politically for more than six centuries (11).

Mexico City, San Juan, and Rio de Janeire, even though widely separated geographically, were arranged into the Latin-american culture-group. According to the <u>Ingralapedia</u>

Latin America is a general term applied to the 20 independent republics of the New World with a Latin background....Geographers, especially, include in the general expression Latin America the pessessions of the European States in the bemisphere since all of the areas were once claimed by Spain. Puerte Rice, a Spanish colony for four conturies, but new a part of the United States, may also be included under this term ... Although each country has its own separate and distinct national characteristics, taken together they have a common European erigin, a common colonial background, a common history of related mevements for independence from their mother countries a language with a common reet, a common psychology and way of life, a prodeminant common religion (11)

The criteria were perhaps most easily met for forming the German culture-group. All three locations, Karlsrube, Hamburg, and Hunich, are from the same country with a common historical trauma, common language, and similar goography.

The second aim of the study is a comparison of children's social values within each of the culture-groups. If the criteria were met and the locations can in fact be arranged into culture-groups, one would predict that the differences in the children's story completions <u>between</u>
ewlture-groups would exceed the differences <u>within</u> culturegroups. Such a prediction was restated as two hypothesess

Hypothesis I: There are differences between culturegroups.

Hypethesis II: Lecations de net differ within a eulturegroup.

IV. PROCEDURE

•

The sample

A random sample was selected for this study to reduce the number of Football Story completions to some number under 5,068. It was desirable to have the same number of story completions from each location for ease and efficiency in calculation and so that the chi-squares obtained in the analysis would be comparable throughout. The largest number of story completions which could be drawn from all 12 locations was 150. Thus, with two exceptions, equal numbers of children, 75 boys and 75 girls, were drawn in random order from the pool of Football Story completions by seventh-grade children in each of the 12 locations shown in Table 1.

equate the sample for sex of the children. In Stockholm there were only 72 seventh-grade boys who completed the Football Story; thus story completions of five girls were randomly discarded from the total sampling leaving the remaining story completions of 78 girls to make a total of 150 children for Stockholm. The total number of Rie de Janeire girls who completed the Football Story was 72; therefore, the number of boys randomly selected was 78 to provide a total of 150 children for the sample.

The story completions included for analysis were drawn in a random order in the following manner. First, a list

of the identification numbers of all seventh-grade children was made for those who had completed the Feetball Story, separate lists being maintained for boys and girls. A table of random numbers was then used to select the story completions to be included in the study.

Kethod of analysis

Vith the 12 locations arranged into four culturegroups, it was possible to employ a method of analysis using
the components of the total chi-square. Because of the additive nature of chi-square, the total chi-square for each
eategory was broken down into its component parts so that
the contribution of each culture-group to the total chisquare was accounted for. Uping this precedure, then, there
were two classes of components.

First, there was one between-group chi-square compensate for each category. Information regarding the differences in story completions between culture-groups was drawn from this compensat. Hypothesis I was tested at this level of the analysis.

In addition, there were the within-group chi-square components from which information regarding the homogeneity of locations within the culture-groups was drawn. These components were used to test Hypothesis II. There were four culture-groups and thus there were four within-group chi-square components for each category.

V. FINDINGS: COMPARISON OF CATEGORIES BY CULTURE-GROUPS

A consistent finding for each of the five categories examined was that the total chi-square was significant beyond the .001 level. In other words, considered in total there were significant differences between the 12 locations. Since the total chi-square is a composite of between-group and within-group chi-square components, that which remained to be established was the level at which these differences were operative.

At the between-group level, the chi-squares were consistently significant beyond the .001 level. Hypethesis I was therefore accepted as being tenable; there were significant differences between the culture-groups of locations.

At the within-group level of analysis the findings were not all consistent. In the discussion below, each of the five categories is considered in turn with regard to the within-group chi-square components. Also, the rank ordering of culture-groups by per cent in terms of acceptable and not acceptable behavior is reported.

Category 31, Kicker's intention recarding the exper

The choices that the children made when they wrote about the intentions of the kicker in their story completions were recorded in Category 31. A comparison of the children's story completions is shown in Table 5. Note that

Table 5. Category 31, <u>Kicker's intention regarding the</u> **Exper.** Percentages of children by location in the three item clusters.

Culture- graup Location	Include Iteme 1 & 2 (Acceptable)	Exclude Items 3 & b (Not acceptable)	No information Items 5 & 6 (Not ovaluated)	_d f _	Chi-
	*	%	*		
			TOTAL	22	221.86***
	BETTER	CULTURE-	GROUPS	6	151.77
Angle-american	64.4	26.9	8.7	•	-,,
Scandinavian	56.2	36.9	6.9		
Latin-american	36.2	45.6	18.2		
German	33.3	57.3	9.3		
	VITHIN (CULTURE-	GROUPS		
Angle-american				4	19.87***
Fnoxville	74.7	16.0	9.3	•	2,007
Benton Harber	65.3	26.0	8.7		
Birmingham	53.3	38.7	8.0		
Scandinavian	_			4	7.89
Drammen	61.3	30.0	8.7		
Stockholm	52.0	43.3	4.7		
Helsinki	55.3	40.0	4.7		
Latin-american				4	29.87***
Mexice City	24.7	60.7	14.7	-	
San Juan	34.7	46.0	19.3		
Rie de Janeire	49.3	30.0	20.7		
German				L	12.46
Karlsrube	23.3	66.0	10.7		
Hamburg	42.0	48.7	9.3		
Munich	34.7	57.3	8.0		

^{* *} Significant at .01 level

^{***}Significant at .001 level

the total chi-square and the between-groups chi-square: are each significant at the .001 level.

Table 5 shows that the children of the Angle-american sulture-group, with a mean per cent of 64.4, wrote more story completions containing acceptable behavior than did the children from the other culture-groups. The German children, with a mean per cent of 33.3 wrote the least number of story completions with acceptable behavior. Conversely, the German children, with a mean per cent of 57.3, wrote the most story completions in which the kicker's behavior was not acceptable.

It should be noted, however, that in no location did all of the children write story completions in which the kicker's behavior was assentable or not assentable. No location was entirely "good" or entirely "bad" as evidenced by the Anglo-american children who, although they had the highest percentage of story completions recorded as assentable, also had a mean per cent of 26.9 of story completions recorded as not assentable in Category 31.

Items 5 and 6 include vague steries or story completions which evade the issue of the kicker's facing the evacr. The Latin-american mean per cent of 18.2 was twice that of the German culture-group mean per cent of 9.3 which was next in rank order.

It can be noticed that all culture-groups except the Scandinavian were beteregeneous; the within-group chi-squares were significant at or beyond the .01 level. The children of

Table 6. Category 32, <u>Commanion's intention regarding the awner</u>. Percentages of children by location in the three item electors.

GultureLecation	Include Items 1 & 2 (Acceptable)	Fralude Items 3 & & (Not acceptable)	No information Items 5 & 6 (Not evaluated)	42	Chi-
•	*	\$	\$		
			TOTAL	22	203.57***
	BETVERN	CULTURE-	GROUPE	6	139.06***
Angle-emotions	59.3	27.6	13.1		*******
Scandinavian	49.3	39.8	10.9		
Latin-american	30.7	46.4	22.9		
German	32.9	56.9	10.2		
	VITHIN (CULTURE-	GROUPS		
Angle-american				4	24.58***
Enerville	68.0	15.3	16.7	•	,
Bonton Harber	60.7	26.7	12.7		
Birmingham	49.3	40.7	10.0		
Seemdinevian		- - .		4	2.87
Drawnen Charlete I.	52.7	26.7	10.7		
Stockholm Molsinki	48.0	43.3	8.7		
MYA PARKA	47.3	39-3	13.3		
Latin-amorican				4	23.27***
Mexico City	20.7	60.0	19.3		
San Juan	30.0	46.0	24.0		
Rio do Jameiro	41.3	33.3	25.3		
German				4	12.79*
Karlerube	21.3	66.0	12.7		
Mamburg	38.7	47.3	14.0		
Munich	32.0	57.3	10.7		

^{*}Significant at .05 level

^{* **} Significant at .001 level

Drammen, Steckholm, and Helsinki were not significantly different in values regarding the kicker's intention regarding the owner.

Category 32. Companion's intention regarding the owner

As mentioned earlier, Categories 31 and 32 centain exactly the same items, definitions, conditions, and values, except that Category 31 pertains to the kicker while Category 32 pertains to the companion. It should be noted that there were differences between the distributions of tallies for the two categories. In Category 32 there was a greater number of story completions recorded in the net avaluated item cluster for each location, with a consequently smaller number of tallies recorded in the acquetable behavior item cluster than in Category 31. In other words, more of the children wrote nothing about the intention of the companion in their story completions than wrote nothing about the intention of the kicker.

One of the findings shown in Table 6 is that the children from the Angle-american sulture-group most frequently made choices that were <u>acceptable</u> when writing their story completions. The Scandinavian children ranked second with German children ranking third and Latin-american children ranking fourth.

A conspicuous divergence was again shown by the Latinamerican children in writing vague stories recorded in Items 5 and 6. Not only was the culture-group mean of 22.9 per

Table 7. Category 33, Borg' identity revealed to sweet.

Percentages of children by location in the three item elusters.

Culture-	Velumtary Items 1 A 2 (Acceptable)	Invelumtary Item 3 (Not acceptable)	Not revealed Items & & 5 (Not evaluated)	45	Cbi+
	%	%	%		
	-		TOTAL	22	208.60***
	BETVERN	CULTURE-	APOUPS	6	145.33***
Angle-emerican	64.2	16.4	19.3	•	47.77
Scandingvian	57.3	14.7	28.0		
Latin-american	38.0	15.8	46.2		
German	32.0	23.8	44.2		
	WITHIN	Cul t ur b -	-GROUPS		
Angle-amorican					18.42**
Enerville	75-3	10.7	14.0	-	10.42
Benton Harber	62.7	14.0	23.3		
Birmingham	54.7	24.7	20.7		
Scandinavian				4	12.42*
Drames	63.3	18.7	18.0		
Steekhelm	52.7	14.0	33.3		
Holsinki	56.0	11.3	32.7		
Latin-american				4	17.27**
Mexico City	28.7	17.3	54.0		
San Juan	34.7	18.7	46.7		
Rio do Janoiro	50.7	11.5	38.0		
German				4	14.62**
Karlstube	22.0	26.0	52.0		
Hamburg	42.0	22.7	35.3		
Munich	32.0	22.7	45.3		

Significant at .05 level

^{**}Significant at .01 level

^{***} Significant at .001 level

cent the largest of all the culture-groups, but the individual per cent for each of the Latin-american locations were larger than for any of the nine other locations.

Table 6 shows also that for Category 32, the Scandimavian children wrote homogeneous story completions; whereas the story completions of the children within each of the three other culture-groups were not homogeneous.

Category 11, Berg' identity revealed to the evmer

The sheless that the shildren made when they wrote about the boys revealing their identity to the owner are compared for Category 33 in Table 7. The total chi-square as well as each of the chi-square components was significant. The choices made by the children within each of the culture-groups were not similar. The social values of the culture-groups were not benegenoous.

As was seen in Tables 5 and 6, and shown again in Table 7, the Angle-american children most frequently made choices that were <u>acceptable</u>. The mean per cent of stories from the German locations was lowest for <u>acceptable</u> values.

Item 3 includes story completions in which the identity of the boys was revealed involuntarily. That is, story completions in which the boys were caught. The German children wrote the highest percentage of stories recorded in this <u>natestable</u> item, their mean per cent being considerably

Table 8. Category 36, Restitution by the boys. Percentages of children by location in the three item clusters.

Culture=	Velumtary Items 1,2,3,6 (Acceptable)	Inveluntary Item 5 (Net acceptable)	He restitution Items 6,7,8,9 (Not acceptable)	45	Chi-
	%	%	%		
			TOTAL	22	166.01***
	BETVEE	CULTUI	RE-GROUPS	6	101.35
Angle-amorican	43.6	13.3	43.1		
Seandinavian	25.6	13.1	61.3		
Letin-emerican	22.9	6.9	70.2		
Germen	19.6	14.9	65.6		
	WITHIN (CULTURE.	-GROUPS		
An all a companies and					32.48***
Angle-american Knorville	52.7	8.7	38.7		
Benton Harbor	51.3	8.7	40.0		
Birmingham	26.7	22.7	50.7		
Seandinavian		_		4	5.37
Dramen	28.7	16.0	55.3		
Stockholm	22.0	10.0	68.0		
Helsinki	26.0	13.3	60.7		
Letin-emerican				•	16.64**
Mexico City	16.7	10.0	73.3		
San Juan	18.7	6.7	74.7		
Rio do Jameiro	33.3	4.0	62.7		_
Gorman			_	4	10.17
Karlsrube	13.3	12.7	74.0		
Hamburg	25.3	13.3	61.5		
Huni ch	20.0	18.7	61.3		

^{*}Significant at .05 level

^{**}Significant at .01 level

Significant at .001 level

above the mean per cent of the three other culture-groups which were quite similar to each other.

Items 4 and 5 include story completions in which the boys' identity was definitely not revealed and in which it was not clear whether or how the boys' identity was revealed. Although Items 4 and 5 were considered mai avaluated, from the standpoint of the owner whose window had been broken, these stories would be mai agagniable. On the combined Items 4 and 5, the German mean per cent of 44.2 almost equaled the Latin-american mean per cent of 46.2, both groups being conspicuously higher than the Scandinavian culture—group with 28.9 per cent and the Angle-american culture—group with 19.3 per cent.

Gategery 16, Restitution by the boys

In Category 36 are recorded the choices of the children when they wrote what the boys did regarding restitution of the damaged window. The percentages for Category 36 are shown in Table 8. The differences between the culture-groups were significant at the .001 level. Angle-american children had the highest number of accaptable choices; the German children had the levest.

The Latin-american children had the fewest number of stories in which restitution was involuntary, there being little difference between the other culture-groups on Item 5, "involuntary restitution."

Table 9. Category 38, Accord/discord between the bers.
Percentages of children by location in the three
item clusters.

Culture-	Asserd Items 1 & 2 (Not evaluated)	Disserd Items 3 & 4 (Not evaluated)	He information Item 5 (Not ovaluated)	af	Cbi-
	*	%	*		
			TOTAL	22	75.09***
	BETTER	CULTURE.	GROUPS	6	44.75***
Angle-american	80.4	8.2	11.3		44173
Scandinavian	76.7	13.1	10.2		
Latin-american	71.8	7.3	20.9		
German	82.9	7.8	9.3		
	VITHIN :	Cultur e -	GROUPS		
Angle-american				. 4	11.53*
Knerville	85.3	4.7	10.0		
Bonton Harbor	80.0	6.0	14.0		
Birmingham	76.0	14.0	10.0		
Scandinavian	-			4	13.95**
Drammon	72.7	20.0	7.3		
Stockholm	82.7	8.7	8.7		
Holsinki	74.7	10.7	14.7		
Latin-amorican				4	.98
Mexico City	70.0	8.0	22.0		
San Juan	74.7	6.7	18.7		
Rio do Jameiro	70.7	7.3	22.0		
Gorman				4	3.88
Karlsrubo	84.0	9.3	6.7		
Hamburg	80.7	6.7	12.7		
Humich	84.0	7.3	8.7		

^{*}Significant at .05 level

^{**}Significant at .01 level

^{***}Significant at .001 level

Angle-american children wrote considerably fewer story completions in which there was no restitution or no mention of it, Items 6,7, 8, and 9, while the Latin-american children were again highest in percentage of stories which did not specify what was done regarding restitution of the window.

The Scandinavian children wrete stery completions that were homogeneous in this category; whereas the stery completions of the children within the three other culture-groups were not homogeneous as shown by the significant withingroup chi-squares in Table 8.

Category 38, Accord/discord between the bern

The item clusters in Category 38, as explained above, were not evaluated. Nevertheless, the fantasy choices of the children when writing about the relation between the two boys in a conflict situation were compared as seen in Table 9.

The German children made more choices in which the beys acted in accord than did the children from the other culture-groups. The reader should note, however, that in the four other categories the German children rather consistently made fewer acceptable choices and more choices that were not acceptable. The German children wrote more stories in which the beys ran away together.

In Category 38, the Scandinavian children wrote the greatest number of story completions in which the boys acted in discord, their percentage being considerably above the

percentages for the three other culture-groups.

Further evidence of the vagueness of the Latin-american stery completions was shown by the mean per cent of 20.9 in Item 5, "no information," which was almost twice the respective per cents of the three other culture-groups.

Also seen in Table 9 is that both the Latin-american culture-group and the German culture-group were found in Category 38 to contain similar story completions; whereas the two other culture-groups were not homogeneous as indicated by significant within-group chi-squares.

VI. FINDINGS: COMPARISON OF CULTURE-GROUPS BY CATEGORIES

Findings regarding each of the five categories were reperted in turn in the preceding section. In the discussion
below, the foregoing findings are summarised in terms of the
four culture-groups. The culture-groups were examined for
homogeneity. For these categories in which a culture-group
was not homogeneous, one location was found to stand alone
on one side of the culture-group mean per cent on the <u>accentable</u> and <u>not acceptable</u> item clusters. The location whose
per cent stood alone was called <u>deviant</u>. The deviant location did not, however, necessarily maintain its deviant pesition consistently for the <u>not evaluated</u> item clusters. A
chi-square test was used to compare the per cent of the deviant location with the mean per cent of the two other locations.

Hypothesis I

Hypothesis I, that there would be differences between the values of the children in a comparison of sulture-groups, was accepted. Vithout exception the between-group chi-squares were significant beyond the .001 level.

When the between-group chi-square results were being interpreted with regard to Hypothesis I the question arese

whether or not the differences within the culture-groups were as large as the differences between culture-groups. An index for comparing the differences contained at each level of the analysis could be derived from the chi-squares already obtained. Since the expected value of a chi-square is its degrees of freedom, the ratio of each chi-square component to its degrees of freedom gives an index of the since of the chi-square obtained. By this procedure it was found that the chi-squares at the between-group level were consistently at least twice the since of the chi-squares obtained at both the within-group level and the total level. It was then evident that the within-group differences were consistently smaller than the between-group differences. For this reason also, Rypothesis I was accepted as being tenable.

Ancle-emerican enlinre-group

In the categories with evaluated item clusters, the Angle-american sulture-group, without exception, had the most story completions with <u>accentable</u> behavior and the least number with behavior that was <u>not acceptable</u>. It should be noted, however, that the Angle-american culture-group was never completely free of <u>not acceptable</u> social values.

The Angle-american culture-group was not a homogeneous group on these same entegeries. Birmingham, England, was the deviant location in each of the five categories. More-ever, with respect to social values, the Birmingham children

Table 10. Angle-american culture-group locations. Comparison of the single deviant location with the mean of the two other locations on three item clusters of five categories.

Category	Item cluster	Item cluster	Item cluster	Chi-
	*	%	*	
	142:A) [®]	(3441XA)	(546:NE)	
Knerville and Benten Harber Birmingham	70.0 53.3	21.3	9.0 8.0	11.04**
32, Garmaniania inte	142: A)	(3441WA)	(SAGINE)	
Benton Harbor Birmingham	58.0 49.3	21.3	14.7 10.0	11.15**
33. Sara' identity.	lar:a)	(AKEC)	(4451HE)	•
Benton Harbor Birmingham	68.7 54.7	12.7	18.7 20.7	8.32°
the state of the s	,2,3 <u>4</u> 41A)	(SINA)	(6,7,8491)	IA)
Rnoxville and Bonton Harbor Birmingham	52.0 26.7	8.7 22.7	39.3 50.7	23.76**
38, Asserd/disserd.	142:HE)	(344:112)	(51HE)	
Benten Harber Birmingham	82.7 76.0	5.3 14.0	12.0	6.52°

[&]quot;A - Assentable: "A - Het assentable: "" - Het evaluated

^{*}Significant at .05 level

Significant at .01 level

consistently in each of the categories, wrote fewer story completions with <u>acceptable</u> choices than did the children in either of the two United States locations.

Table 10 shows for the Angle-american culture-group the comparisons of the single deviant location with the mean of the two other locations in each of the five categories. The differences between the Birmingham story completions and the story completions of Bonton Harbor and Enexville children were in each case significant.

Seemdineview gulture-group

In Tables 5, 6, 7, and 8 it was seen that the children in the Scandinavian culture-group were consistently second in rank order in terms of acceptable behavior. That is, it was consistently below the Angle-american culture-group in percentages of stories with <u>acceptable</u> behavior; also consistently ranking above the Latin-american and the German culture-groups.

The Scandinavian locations constituted a homogeneous grouping in three categories: Category 31, Kicker's intention reserving the summer; Category 32, Commanism's intention reserving the summer; and Category 36, Restitution by the hexa.

In Catogory 33, Bara' identity revealed to the enner, the story completions were sufficiently different to have produced significant within-group chi-squares. Dramon, Hervay, was the deviant location, but, unlike Birmingham,

Table 11. Scandinavian culture-group locations. Comparison of the single deviant location with the mean of the two other locations on three item clusters of two categories.

Category	Item eluster	Item cluster	Item cluster	Chi-
	\$	*	%	
33. Berg' identity	(142:A) ^a	(AMA)	(445:NE)	
Stockholm and Holsinki	54.7	12.7	33.3	. 00
Drammon	63.3	18.7	18.0	9.54**
38, Asserd/discord.				
	(162:NE)	(344 i HB)	(5:NE)	
Drammon and Holsinki	74.0		•• •	
	• "	15.3	11.3	h ee
Steekhelm	82.7	8.7	8.7	4.03

^{*}A = Accentable; NA = Not acceptable; NE = Net evaluated

**Significant at .01 level

was deviant in being highest in its culture-group in frequencies of stories expressing values of <u>acceptable</u> behavior.

In Category 38, Asserd/disserd between the beys, the item clusters were not avaluated as to assertable or not assertable behavior. Table 9 showed that the within-group chi-square for the Seandinavian culture-group in Category 38 was significant at the .01 level. Table 11, however, shows that when Stockholm was compared with the mean of Drammon and Helsinki, the differences were not significant.

Latingenerican gulture-group.

In terms of values expressed as <u>againtable</u> behavior, the Latin-american culture-group consistently ranked third, below the Angle-american and Scandinavian culture-groups and above the German culture-group.

The Latin-american children were conspicuously divergent from the children of the other culture-groups in another respect. In each of the five categories shown in Tables 5, 6, 7, 8, and 9, the Latin-american children wrote the highest frequencies of story completions that were vague, not clear, that had no information, or that emitted mention of the boys. The Latin-american children most frequently evaded the venflict situation.

The Latin-american culture-group was a homogeneous group on the one category which was not evaluated as to garantable or not assentable behavior, Category 38, Assert/diseard between the hore. On the four remaining categories,

Table 12. Latin-american culture-group locations. Comparison of the single deviant location with the mean of the two other locations on three item clusters of four categories.

Category	Item cluster	Item cluster	Item cluster	Chi-
31. Kicker's intent	(148+A) ^a	(344+HA)	(5461HZ)	
San Juan Rio de Janeiro	30.0 49.3	53.3	17.3	17.30***
32. Companion's int	142:A)	(JA4:HA)	(586:XE)	
Mexico City and San Juan Rio do Janeiro	25.3 41.3	53.3 33.3	21.3 25.3	13.03**
)), Berg' identity.	(1421A)	(3:MA)	(445:NE)	
Nozice City and San Juan Rie de Jameire	31.7 50.7	18.6	50.3 38.9	11.51**
36, Restitution.				
Hexico City and Sem Juan	1,2,344a) 17.7	(51XA) 8.3	(6,7,849:X	A)
Rio do Janeiro	33.3	4.6	62.7	14.04***

^{*}A = Accentable: MA = Not accentable: MS = Not evaluated

^{**}Significant at .01 level

^{***} Significant at .001 level

Table 12. Latin-american culture-group locations. Comparison of the single deviant location with the mean of the two other locations on three item clusters of four categories.

Item eluster %	Item cluster	Itom cluster	Chi-
(1421A) [®]	(Jahena)	(5A61HZ)	
30.0 49.3	53.3 30.0	17.3	17.30***
Mt. (162:A)	(344:HA)	(546 : NE)	
25.3 41.3	53.3 33.3	21.3 25.3	13.65**
(1421A)	(31MA)	(4451XZ)	
31.7 50.7	18.6	50.3 38.0	11.71**
L.2.3441A)	(S1XA)	(6.7.849:X	(A)
17.7	9.3 4.0	74.0 62.7	14.04***
	25.3 41.3 (1A2:A) 25.3 41.3 (1A2:A) 25.3 41.3		Cabina C

[&]quot;A - Acceptable: MA - Not acceptable: ME - Not evaluated

^{**}Significant at .01 level

^{***} Significant at .001 level

Table 12 shows that Rie de Jameire was the deviant location in that the children from this location wrote story completions more frequently containing acceptable choices than did the children from Sam Juan and Mexico City.

German gulture-group

In Tables 5, 6, 7, and 8 it was seen that the children from the German culture-group consistently ranked fourth in the evaluated item clusters of <u>acceptable</u> behavior. The secial values of the German children as evidenced by their choices were least frequently <u>acceptable</u>. In the same tables it was also seen that the German children consistently ranked highest in <u>not acceptable</u> behavior.

The German culture-group was homogeneous on one categery, Category 38, <u>Asserd/disserd between the bays</u>. On the four other categories, Karlsrube was found to be the deviant location. Table 13 shows that the Karlsrube children wrote fower story completions containing <u>assertable</u> choices and more story completions containing <u>not assertable</u> choices than did the children from Hamburg and Humich.

Hypothesis II

Hypothesis II was that the culture-groups would be found to be homogeneous on the five categories. Instead,

Table 13. German sulture-group: locations. Comparison of the single deviant location with the mean of the two other locations on three item clusters of four categories.

Category	Item cluster	Item cluster	Item elugter	chi-
31, Kisheris inte	M1. (14214) ^a	(3441HA)	(546:HE)	
Hamburg and Numich Karlsrube	38.0 83.3	53 · 3 66 · 0	8.7 10.7	7.59*
32, Companion's	- 1 -	00,0	44.j	(-3)
Hamburg and	(142:A)	(344sMA)	(566:NE)	
Munich Karlsrube	25.3 21.3	52.3 66.0	12.7	7.54*
33. Bara' identii	Y. (1421A)	(SIKA)	(4451HE)	
Hamburg and Nuniob	37.0	22.7	40.3	
Karlsrube	22.0	26.0	52.0	7.92*
36, Restitution.	(1,2,344:A)	(SINA)	(6,7,849:N	L)
Hamburg and Hunich Karlsrube	22.7	16.0	61.3 74.0	6.00°

[&]quot;A = Acceptable; MA = Het acceptable; ME = Het evaluated

Significant at .05 level

the culture-groups have been shown to be heterogeneous in the following number of entegeries:

Angle-american 5

Seandinavian 2

Latin-american 4

German 4

Hypothesis II therefore had to be rejected.

VII. DISCUSSION OF FINDINGS

With the acceptance of Hypothesis I that there were difforeness between the culture-groups and with the rejection of Hypothesis II that there were no differences within the culture-groups, the question should be asked: To what were these differences due? Schachter and his associates (29), in conducting cross-cultural experiments on threat and rejoction, suggested three possible explanations when they found cultural differences. First, the differences may be due to experimental artifacts, which in this study would be the Football Story itself and the conditions under which it was administered. Second, the differences may be due to a more complex relationship than was originally supposed when the eritoria for forming the culture-groups were considered. Third, the differences may be due to actual cultural differences. Each of these explanations will be considered in turn.

Experimental artifacts which could possibly have accounted for the cultural differences found in this study would have been operative in any one of several areas; administration of the Anderson Incomplete Stories, the sample of children gathered and included in the analysis, or the Football Story itself. The incomplete stories were administered in each location by local research teams drawn from university staff and students in psychology and education. The Andersons trained the teams, and, with one exception,

personally supervised the data collection in the classrooms. The data were collected under standardised, controlled, and known conditions (3). The administration of the incomplete stories does not appear to have been a source of error.

Regarding the sample, only seventh-grade children were included in the present study, the numbers of boys and girls being approximately equal. In each location the sample included children from the highest, middle, and levest secteeconomic groups. With these controls, differences between the locations on these demographic variables were minimized to reduce sources of error in the sampling.

For this study, a random sample was drawn from the total data for the 12 locations. While this analysis and report were in progress, subsequent analyses of the total data for the Feetball Story were completed. The findings for the total data and the randomly-drawn data were not dissimilar. Thus, the randomly-drawn data were of sufficient numbers to have been sensitive to and indicative of the location trends reported.

The third area where an experimental artifact could have been a significant contributor of error is in the Football Story itself, or rather, the reliability and validity of the children's completions elicited by the Football Story.

The traditional test-retest approach to measuring reliability or stability of responses to the Anderson Incomplete Stories leads to difficulty because of memory factors. Geierhaus (16), reporting on a retest after a period of two weeks, found Karlsruhe children rewriting their original completions to the Lest Meat Story (Number 2, Series A), with some children using the same wording. Retesting after longer periods is not desirable for a finding of differences in completions could be attributable to growth and developmental factors as well as to low reliability of the instrument.

Very little internal consistency in story completions of individual children was found by Tordal (33) in working with children's completions to the Football Story, the Lost Meat Story, and the Broken Aze Story (Number 4, Series B). This finding may be due to the fact that the different incomplete stories elicit different response tendencies by pertraying different conflict situations or it may be due to the fact that the Anderson Incomplete Stories have low reliability.

An alternative approach for measuring reliability, one which is an adaptation of the test-retest technique, is to held age constant and to draw samples of children from the same population at different times. In a study that is new being prepared for publication, samples of approximately 300 seventh-grade children were drawn from the same rooms in the same schools in the same neighborhoods in Hunich, Germany, in 1954 and again in 1960. There were no significant differences between children from these two samples in their completions to the Football Story. Thus, there does appear to be some reliability to the Football Story.

concerning validity, Farber (12) (and Klimeberg as diseussed in Farber) suggests that conclusions regarding national character are semewhat more valid if the findings from one study agree with the results of several other studies obtained independently. Two studies which seem to have aims quite similar to these of the present study are those reported by Farber (13) and Kaldegg (22).

Farber (13) posed the fellowing question to United States and English insurance elerks:"A preparly brought-up shild should be..." The British and American patterns of responses to the question were quite different. Although the dimensions Farber studied were not exactly the same as those of this study, the important fact is that he reported consistent and significant differences in social values of his British and American subjects. It should be remembered that in the present study the Birmingham children were significantly different from the United States children in all five categories that were examined.

Kaldegg (22) analysed the responses of German and English secondary school beys to a projective test, using beys of the same age as the children included in the present study. He found that the German beys showed a marked anxiety ever wrong doing, were in high agreement that severe punishment was the only sequence to an effense, and in general emphasised negative interpersonal relationships. On the ether hand, the English beys were more lenient, successfully adapted punishment to meet the situation, showed greater

flexibility in their responses, and tended to emphasize mere positive interpersonal relationships. The findings of Kaldegg are not at all unlike these reported in the present study where the German children were consistently found to rank highest in not acceptable choices and lewest in acceptable choices. The Angle-american children were on the opposite extreme, being consistently lewest in not acceptable values and highest in acceptable values. Within the Angle-american culture-group, however, the Birmingham children ranked above the United States children on not acceptable items and below on acceptable items.

These two studies taken together effer evidence for confirmation or validity of the findings reported berein.

The second explanation effered by Schachter and his associates (29) was that the cultural differences might be due to a more complex relationship than was originally supposed when the criteria for ferming the culture-groups were considered. One factor which Cattell (8) did not include in the criteria was a consideration of the beterogeneity of a culture.

Anastasi (1) has indicated that descriptions of mational character represent the modal or most frequent personality patterns within cultures. There may be varying degrees of deviation around a mode by individuals and subgroups. She points out that the extent of heterogeneity of behavioral patterns within a culture may itself be regarded

as one important aspect of national character.

In discussing behavioral patterns relating to child rearing practices within the United States, Sears, Macceby, and Levin (30) indicated that there is no uniformity. They said that "differences of ethnic origin, of secio-economic status, and of family size all contribute to the great variety of values and practices."

Consideration of cultural beterogeneity is relevant in the present study to the fermation of the culture-groups. The locations were arranged into culture-groups on the basis of the similarity of their respective countries, not on the basis of the similarity of the locations (with the obvious exception of the German cities). Cultural beterogeneity was not taken into account. Perhaps for this reason the culture-groups were not homogeneous groups of locations. With a medal value of a number of locations from the same country, rather than a single location drawn from a beterogeneous culture, perhaps the culture-groups would be homogeneous.

The third explanation offered by Schachter and his associates was that the differences may have been due to actual cultural differences. Davis and Havighuret (9) pointed out that although there are personality differences between individuals within a culture, there are also many similarities. The mold of culture permeates through all, setting the limits and determining modes of adjustment.

In the present study consistent and significant cultural differences were reported between the groups of locations. Certain of these differences were on a dimension of social values. We interpretation of findings is free from cultural bias, and the evaluation placed on these findings is an open question, open to the interpretation of the reader.

VIII. SUBBIARY

The Anderson Incomplete Stories have been administered to children in eight countries speaking seven languages. For this study data have been taken from children in the twelve principal locations in the eight countries. Completions to the Feetball Story, the fifth story in Series A, were written by 5,068 seventh-grade children in their native languages and translated into English.

For this study 150 seventh-grade children, 75 boys and 75 girls, with two exceptions, were drawn in random order from the pool of story completions from each of the twolve locations listed below.

The locations were arranged into four culture-groups as follows: Angle-american culture-group: Bonton Harber, Michigan; Knoxville, Tennessee; and Birmingham, England. Scandinavian culture-group: Helsinki, Finland; Drammen, Norway; and Stockholm, Sweden. Latin-american culture-group: Mexico City; San Juan, Puerto Rico; and Rio do Janeiro, Brasil.

German culture-group: Karlsrube, Hamburg, and Mumich, Germany.

The two aims of the study were to determine if the secial values of the children differed <u>between</u> the culturegroups and to determine if the social values of the children
from locations <u>within</u> culture-groups differed from one amether. These problems were stated as hypotheses:

Hypothesis I: There are differences between culturegroups. Hypothesis II: Locations do not differ within a culture-group.

Tive eategories comprising 35 items were used for coding and recording the story completions to the Football
Story. Certain items in the coding categories were arranged
into clusters classified as acceptable, not acceptable or
not avaluated in terms of hypothesised and defined social
values, based on general cultural expectations of children
in the United States.

The frequencies of tallies in the item clusters were compared by a method of analysis using the components of the total chi-square. This method provided a means of testing Hypothesis I with the between-group chi-square components and Hypothesis II with the within-group chi-square components.

Hypothesis I that there were differences between the values of the children from the different culture-groups was accepted. Without exception the between-group chi-equares were significant beyond the .001 level. The rank order of culture-groups in acceptable social values was:

1, Angle-american; 2, Scandinavian; 3, Latin-american; and 4, German.

Hypothesis II was that the culture-groups would be found to be bemogeneous on the five entegories examined, Instead, the culture-groups were found to be betoregeneous in the following number of categories: Angle-american, five; Seandinavian, two; Latin-american, four; and German, four.

Hypothesis II that the children within the same culturegroups would make similar choices and hold similar social
values when writing their stery completions was not supported.

Each culture-group had one location deviant from the two others. Deviant locations high in acceptable social values were Drammon and Rio de Janeire; deviant locations low in acceptable social values were Birmingham and Karls-rube.

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APPENDIX A

Directions for administering the Anderson Incomplete Stories

Here are six short stories. Beys and girls in other American schools as well as in Germany, Mexice, and England have also written these stories. Read what happens in the story, then write what, in your opinion, happens next. Use your imagination. Write clearly, but do not try to write beautifully. Try to write as quickly as you can. If you make a mistake, strike out the word and continue immediately,

You will not be graded for these stories. Your teacher, the principal, and other teachers in this school will not even get to see these stories. We do not want you to put your name on the paper. Write henestly what you really think. If your name is not on the paper, you may even write something which you would not tell to a teacher or to anyone else.

I will now hand out the forms. You need not look at each other's papers as there are no right or wrong answers. You each have enough imagination to write for yourselves. (Hand out the papers. The teacher does not participate.)

On the top of the first page please write the date of your birth. Write the month, the day and the year, like this (write on the board) June 4, 1943. Then write how old you were on your last birthday (write 13). Now make a cross after boy or girl. Write the name of your school and give your school grade. Write what church you attend, or if you do not attend church, write none. When you write the occupation of your father, do not write the name of the company, but the kind of work he does, like carpenter, laborer, book-keeper. If your mother works away from home, write what she does. Otherwise write home.

If you read the first story you will see that there are seme questions at the end. Please think about these questions, but do not try to answer them one by one. These questions are put there to help you finish the story. When you finish the first story, continue with the next story without delay. If I (test administrator) go through the aisles I am not trying to look at your paper and read what you have written. I will only see how far you have proceeded.

Try to finish all six (five) stories. You will have the entire period. Do you have any questions? If you cannot read a word, or if you have a question, or need a pencil, please rais your hand and I will then come to your seat. And now are your ready? If so, ready, start.

Andersen Incomplete Stories

Series A

1. Frank and Peter are walking to school. Suddenly Frank grabs Peter's cap and throws it high up into the mearest tree so that Peter could not reach it with his hand. Frank had never done anything like this before. Neither had Frank and Peter quarreled with each other the day before.

Why did Frank do this? What does Frank think? What does Peter do? How does Peter fool about it?

Think about these questions, then <u>finish</u> the story quickly with a few sentences.

2. Michael's mether sends him to the store to get one pound of wieners. On the way home he puts the package of meat on the edge of the sidewalk and plays for a short time with his friends. A shepherd dogs darts forward quickly, claws half the wieners out of the package and rushes away with them. Michael wraps up the remaining wieners and takes them become

What does Michael say to his mether? What does his mother do? How does Michael them feel about it?

Think about these questions, then <u>finish</u> the story quickly with a few sentences.

). The teacher suddenly discovers that fifty cents has disappeared from her desk. She looks up and sees that all the class are working on their arithmetic. She wenders what happened to the money and what she should do.

What does the teacher de?

<u>linish</u> this story also with a few sentences. Tell what happened to the memory and also exactly how the teacher feels and what she does.

4. Susan is sitting in the living room working on her homework. Suddenly she remembers her mether's new coat. She wenders how she would look in it. When taking the coat off she notices that she had get some ink spots on her mether's new coat. Just as Susan is trying to wipe out the ink spots her mether enters the room.

What does her mether say? What does Susan say? How do they both feel about it? What does each one do?

Think about these questions and finish this story quickly with a few sentences.

5. George and Tem are playing with a feetball. They knew that they should not play feetball on the narrow space in front of the house. George gives the ball a strong kick and the ball hits a window and makes a big crack in it. Tem thought that semeone had appeared behind the window. No one sould have seen who had kicked the ball against the window.

Finish this story with a few sentences. Tell how the two boys felt about it and what they did.

6. Betty often handed in her homework composition late to the teacher. This time it was an especially important composition, and she had, mercover, finished it. On the way to school she lest her composition book and could not find it anywhere.

What does Betty say to her teacher? What does the teacher say?

Think about these questions and finish this story with a few sentences.

Series B

1. Mary's grandmether gave her a beautiful vase for her thirteenth birthday. One day, Mary's mether comes in with flewers which she puts in the vase. She places the vase in the window, though she knows the window ledge is too narrow for this vase and that it might fall off. As her mether is dusting, she bumps the vase and it crashes to the fleer and breaks. While Mary's mether is in the kitchen getting a cloth, Mary returns from school and finds the vase in pieces on the fleer.

What does Hary do? How do they both feel about it? What does the mother say?

Think about these questions and finish this stery quickly with a few sentences.

2. John worked hard and bought a new bieyele with his money. One Saturday, while John is playing with friends, John's father decides to ride this bicycle to the store to buy cigarettes. He leaves the bicycle in the street. When he comes out of the store he finds the frent wheel bent and some of the paint on the frame badly scraped. No one is around. The father could still ride the bicycle home.

What does the father do? What does John do? How do they both feel about it?

Think about these questions and finish the story quickly with a few sentences.

3. The teacher has promised the class that if they work hard during the last menth of the term they will have one day off to make a special trip. Several times during the last menth the teacher talks about this trip. The children want to make this trip and they work very hard. Now it is the last week of the term and there is no time for a trip.

What does the teacher do? What do the children think, and how do they feel about it?

Think about these questions and finish the story quickly with a few sentences.

4. Herbert received for his thirteenth birthday a handsome eamping axe. It is sharp and has a strong leather case. While Herbert is at school his four-year-old brother, Billy, sees the axe, looks at it a long time, picks it up, puts it

back, and finally takes it outdoors with him to play. Billy does not take the case off. He sings to himself as he walks about the garden, tapping the axe gently against a tree, a pest, and the pavement. Herbert comes home from school, finds the axe in its leather case with some other toys. But he sees that the axe has cut through the leather case and the blade is chipped and blunted.

What does Herbert do? Hew does Rerbert feel about it? Think about these questions and <u>finish</u> the stery quickly with a few sentences.

5. Kate, aged 13 years, has a little four-year-old sister, Clara. When Kate comes home from school Clara eften wants to play with her and follow her and her older girl friends around. One day Clara took a very pretty new dress from Kate's wardrobe, put it on herself, and looked in the mirror. It was too long and hung to the floor. She gathered up the skirt in her arms and went out of the house for a walk. Kate came home from school, found her new dress crumpled on a chair. The skirt had been stopped on and dragged in the dirt. Clara said, "I were your dress."

What does Kate do? What do Kate and Clara think about it and how do they feel?

Finish the story in a few sentences.

APPENDIX B

A description of the 12 locations included in the study. Source of information: <u>Encyclopedia Americana</u>, New York: Americana Corporation, 1960.

- Knowille, city, east Tennessee, situated on north bank of Tennessee river 111 miles northeast of Chataneoga. The population in 1950 was 124,770, making Knewville the fourth largest city in the state of Tennessee. Trading center for livesteck, dairy, truck, and paultry farm products. Great quantities of burley tabacce grown. Ores, minerals, and stone are processed. Textiles are the city's most important manufactured item; marble, furniture, electrical percelain, cement and steel products follow.
- <u>Benton Harber</u>, city, southwest Michigan, situated on Lake Michigan. Population (1950) 18,769. Large trade in lumber, grain, and fruits; other industrial activities include auto accessories, steel casings, canning, veneer, machinery, and power shovels.
- Birmingham, eity and sounty borough, west central England, 110 miles northwest of London. Population (1951) 1,112,340. Britain's second largest previncial city. Heavily industrial—site of world's largest cocea and checolate manufacturer. Motor and electrical industries, typically many small industries with less than 50 employees. More important products include metercars, bicycles, metercycles, brassware, demostic utensils, and machine and hand teels.
- Helsinki, eity and capital of the republic of Finland. Located on peninsula in Gulf of Finland, 180 miles by
 rail west of Leningrad. It is Finland's chief commercial and cultural center, an important seaport. Industries include shipbuilding; textile, machinery and
 ceramics manufacture; tebacco processing and sugar refining. It exports lumber, pulp, plywood and paper.
 Population (1954) 396,300.
- Praumen, city, south Hervay, located on arm of Oslo Fjord, 20 miles southwest of city of Oslo. Population (1946) 26,994. A seaport with industrial activity heavily dependent upon lumber; there are lumber yards, sawnills, paper and pulp mills, and collulese factories. There is also textile manufacturing.

- Stackbelm, capital and largest city of Swedon, southeast Swedon, located on Baltic Sea. The city is Swedon's cultural, commercial, and industrial center and ranks second among its seaports. Population (1958) 803,400.
- Maxico City(officially Moxico, Distrito Federal), capital of republic of Mexico. Population (1950) 3,050,400. Pepulation estimated at 4,000,000 in 1958. Cultural and political center of Mexico as well as heart of economic and industrial life. Industries of the city and surrounding areas include textile milling, flour milling, browing, and manufacture of rubber goods, coment, steel and construction materials. Also, eigarettes, seap, leather, shoes, electrical supplies, and furniture.
- <u>Jun</u>, scapert and capital of Puerte Rice. In 1951 the adjoining city of Ric Piedras was merged with San Juan. Pepulation (1951) 357,200; approximately 20 per cent of Puerte Rice's pepulation. Forty-three per cent of the island's \$400,000,000 property tax is levied in San Juan. Principal industry: garment manufacturing, plastics, electronic appliances and equipment, textiles, machine tools, shoes, chemicals, drugs, publishing, jevelry, asphalt products and feed distribution. Schools organised like those in continental United States. Classes conducted in Spanish.
- Rio de Janeiro, seaport city in Brasil, located en Guanabara Bay. Fermerly capital of Brasil. Important industries include textiles and refining of sugar. Sugar, coffee, cetten, tobacco, and fruits are important crops. Population (1950) 2,303,000.
- Karlsruhe, eity, west German Federal Republic, in Baden en Rhine river. Pepulation (1950) 198,014. Has airport, railread repair shops and factories making tools, machinery, stoves, and seap. Other industries are feed processing, browing, paper milling, printing, and pettery making.
- Hamburg, scapert, morth German Federal Republic, capital of federated state of Hamburg on Elbe river, 178 miles northwest of Berlin. The scapert is the biggest in Germany and before World War II was third largest in the world. Besides extensive shippards there are manufactures of distillery products, felt, machinery, eptical instruments, precision tools, tabacco, and wrought metal. Population (1950), city and state, 1,604,600.
- Munich, capital of Bavaria, south Gorman Federal Republic.
 Population (1950) 832,000. Noted for stained glass works, iron, brass and bell foundries, lithographing and engraving works, optical and mathematical instruments. Also broweries of Bavarian boor.

