

DOCUMENT RESUME

ED 039 043

HC 004 268

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TITLE Northwest Territories Testing Program.  
November-December Norms for Metropolitan Achievement  
Test Battery.  
INSTITUTION Canadian Dept. of Indian Affairs and Northern  
Development, Ottawa (Ontario).  
PUB DATE 31 May 69  
NOTE 90p.  
EDRS PRICE MF-\$0.50 HC Not Available from EDRS.  
DESCRIPTORS \*Academic Achievement, American Indians, Anglo  
Americans, Disadvantaged Youth, Education,  
\*Elementary School Students, Eskimos, Evaluation,  
\*Group Norms, Research, \*Rural Areas, Small Schools,  
Statistical Analysis, Tables (Data), \*Testing  
Programs  
IDENTIFIERS \*Metropolitan Achievement Test Battery

ABSTRACT

The report presents local norms and tables derived from scores of the third administration of the Metropolitan Achievement Test Battery to pupils in grades 2, 4, and 6 in the Northwest Territories during November and December of 1968, and similar data from testing in 1966 and 1967. The student population in the schools consisted of 3 broad ethnic groups: Eskimo, Indian (Metis), and White. The testing program was aimed at (1) giving the teachers a diagnostic tool, (2) establishing a regular pattern of evaluating achievement in the Northwest Territory schools, and (3) providing teachers and supervisors with a standard for comparison of levels of achievement. The document is appended with tables of average scores on selected subtests and distribution of pupils by grade, ethnic origin, and age group. [Not available in hard copy due to marginal legibility of original document.] (BD)

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NORTHWEST TERRITORIES TESTING PROGRAM

NOVEMBER-DECEMBER NORMS FOR

METROPOLITAN ACHIEVEMENT TEST BATTERY

March 31, 1969.

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FOREWORD

This report contains norms and tables derived from the third administration of the Metropolitan Achievement Test Battery to pupils in Grade II, IV and VI in the Northwest Territories during November and December of 1968.

Data for this report were compiled by Mr. H.A. Macdonald. Electronic data processing was carried out with the advice and assistance of Mr. A.H. Netherton of the Department's Computer Information Systems Division. Arrangements for organizing and distributing materials, assembling returns, and printing were made by Mr. G.H. Needham. The project was supervised by Mr. R.C. Stewart.

Thanks are extended for superintendents of schools who handled regional supply dispatches and returns of information and to all members of the field staff who co-operated in this endeavour. It is hoped that the information obtained will be of benefit in future curriculum and evaluation programs.



D.W. Simpson,  
Assistant Director.

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## INTRODUCTION

During November and December, 1967, pupils in grades II, IV and VI in the schools in the Northwest Territories were tested using the Metropolitan Achievement Test Battery. From the results of this testing project and a similar one held in 1966, a series of local Norms in stanine form have been calculated.

## AIMS

The purposes of this aspect of the testing program are:

1. To give teachers a diagnostic tool to aid in their teaching.
2. To establish a pattern of regular evaluation of the achievement of pupils in the schools in the N.W.T.
3. To give teachers and supervisors a standard for comparisons of levels of achievement of pupils throughout the Territories and in the two Districts.

This report is an aid to fulfilling the last of the above objectives. Standard comparisons are contained in the tables of norms which are reported for administrative regions in stanine form, by sub-test, grade and by ethnic origin and for a group of Eskimo pupils in selected schools.

These norms can be used to compare pupils' performance on the Metropolitan Achievement Test Battery with the performance of pupils of similar ethnic origin, geographic location, and grade. They are a supplement to the publisher's norms.

Note: *The results of the tests may encourage speculation on the causes of differences. Great care should be taken to ensure that this speculation does not result in ill-founded conclusions. The results may suggest hypothesis which may be tested later.*

## BACKGROUND

This report and set of tables is not a technical report of a formal norming study. It is a summary of the results of a series of administrations of the Metropolitan Achievement Test Battery to all pupils in selected grades in the schools in the Northwest Territories.

This is the third consecutive year a large-scale testing program has been conducted in the schools in the Northwest Territories. Several significant changes in the design of the project were made as a result of the first two years' experience.

1. Raw score norms have been calculated.
2. The tests were administered only to Grades II, IV and VI.
3. An age cut-off was established for each grade.
4. The minimum size of norm group was changed from 100 pupils to 70 pupils.
5. It was found that the differences between the average scores of pupils of different ethnic origin made norm groups containing all of the pupils (general norms) meaningless, and these are discontinued.
6. An analysis was made of a group of schools selected because they are of similar size (six rooms or less) and have similar, largely Eskimo populations.
7. In certain stanine tables, the 1966 and 1967 results are combined to make larger numbers of students. The choice of these groups was made on the basis of the preliminary analysis of the results.

## POPULATION

The population for which the stanine tables is applicable is defined as all pupils who are within three years of the usual age for grade in grades II, IV and VI in the schools in the Northwest Territories.

The enrolment in the schools in the Northwest Territories consist of three broad ethnic groups:

1. Eskimo
2. Indian - Métis
3. Others (here called White)

For practical educational purposes and also in this report, no distinction is made between Indians who are on the treaty list and Métis. Nor is there any distinction between Eskimo and pupils of mixed Eskimo blood. The teachers were asked to designate a pupil's ethnic origin by his knowledge of how the pupil lives and is known in the community.

The special small school population is defined as all Eskimo pupils in grades II, IV and VI in schools having six rooms or less in the Northwest Territories. Note that there is no age cut-off applied to this population.

Examination of the tables of age distributions included in this report indicate that the range of ages in any one grade in the Northwest Territories is larger than that usually found in corresponding grades in southern Canada. This very often is not due simply to lack of achievement on the part of the children but is caused by factors beyond their control. The most important factors are that many pupils speak English as a second language and come from different and economically depressed backgrounds. Also the northern cultural and climatic environment tend to result in irregular attendance at school. Teachers are in the best position to judge the appropriateness of comparing the scores on the tests of over-age pupils with those of pupils whose age is within the limits set in this study.

PROJECT DESIGN-NUMBER OF SCHOOLS REPORTING

In spite of the extremely difficult mailing conditions in the Canadian Arctic, almost every school in the two Districts had sent in results. However, on examination it was found that some schools did not administer the tests in November or December, 1967. The data from such schools had to be discarded. This is unfortunate as it adversely affects the value of this study.

	<u>MacKENZIE</u>	<u>ARCTIC</u>
Schools Reporting	31	25
Schools Reporting Late	2	13
Schools Included in Report	29	12

This year the analysis included 1,937 or 65% of the total enrolment in the grades tested. (The accompanying map shows the participating communities.) Despite the reduced returns, stanines will be reported for administrative areas where there is a large enough number of students participating.

DATE OF TESTING

The testing was carried out between November 1 and December 30. The norms are applicable only to test results obtained during this two-month period.

TESTS USED

The Metropolitan Achievement Test Battery was administered to the following grades:

- Grade II - Primary II Battery
- Grade IV - Elementary Battery
- Grade VI - Intermediate Battery - Partial



## STANDARDIZATION

For the following reasons, it was decided to ask the teacher to be involved in the administration and scoring of the tests:

1. Teachers have the necessary rapport with the pupils to create a natural and relaxed testing situation.
2. The battery of tests are primarily of use in the classroom situation. Having administered and scored the tests, the teachers are made aware of areas requiring remedial work.
3. Because of the vast distances involved, it is impractical for a team of testers to travel from school to school to administer the tests.

In trying to assure that the administration of the tests was standardized, in 1966 the Testing and Evaluation Specialist of the Education Division had meetings with the district and regional superintendents of schools, the principals-at-large, teachers-at-large, and with many of the principals of the schools. At these meetings, a common method of administration was agreed upon and everyone understood the importance of adhering to sound testing practices. The classroom administration and scoring was under the supervision of the principals of the larger schools. Whenever possible, either a principal-at-large or a teacher-at-large was available to assist and supervise the administration and scoring of the tests in the smaller schools.

A copy of the specific instruction given to teachers in 1967 is Appendix C.

## ANALYSIS

The scores made by each pupil on each sub-test were coded in the Education Division and punched on computer cards. The computer programming was done by the Computer Information Systems Division of this Department.

It was decided that the analysis of this data would be more meaningful if the same age grade cut-off was applied as last year. The scores of pupils who were older than the following age limits were not included in the first part of the analysis:

Grade II - 11 years;

Grade IV - 13 years;

Grade VI - 15 years.

Frequency distributions were produced. That is, a count was made of the number of pupils making each score on each sub-test, in each of the selected grades and ethnic origins, in the Northwest Territories as a whole and for the Districts and Regions.

The distribution of scores on each sub-test was tested for skewness and kurtosis and all distributions which appeared non-normal were noted. A distribution of pupils by age group was made and average scores were calculated for each age group.

In a developing education system, one must be on the alert to identify trends from year to year. For this reason, the scores made by pupils in 1966 were compared with the scores made by pupils of similar ethnic origin, region and grade in 1967. On the basis of the preliminary analysis, it was decided to combine the 1966 and 1967 results for some of the groups and to use the 1967 scores for others (See the table of Stanines published in this report.)

Small school comparisons will serve as an example of how the decision was made.

Note: *A significance level of .05 means that such a result will occur by chance once in 20 times. A significance level of .01 will occur by chance once in a hundred times. Education researchers will usually accept the .05 level as significant.*

Small Schools  
Comparison Between 1966 and 1967 Results

<u>Sub-Test</u>	<u>Mean</u> 1966	<u>Mean</u> 1967	<u>No.</u> 1966	<u>No.</u> 1967	<u>d. t.</u>	<u>"t"</u>	<u>Sig.</u> <u>Diff.</u>
<u>GRADE II</u>							
Work knowledge	12.8	14.3	295	208	501	2.742	.01
Word Discrim.	21.0	23.1	300	205	503	3.059	.01
Reading	17.1	22.5	294	204	496	6.337	.01
Spelling	15.1	16.8	286	200	484	2.186	.05
Arithmetic A	20.6	22.0	283	207	488	1.928	
Arithmetic B	19.0	17.4	272	205	475	2.482	.05
Total Arithmetic	38.5	39.4	298	206	502	0.754	
Average	18.3	19.6	263	201	462	2.560	.05
<u>GRADE IV</u>							
Work knowledge	19.3	18.9	235	167	400	0.659	
Word Discrim.	16.5	18.8	235	167	400	3.665	.01
Reading	16.5	16.3	234	167	399	0.288	
Spelling	25.4	24.4	234	167	399	0.904	
Arith. Concepts	14.2	13.8	230	167	395	0.744	
Arith. Comput.	26.9	26.2	232	168	398	0.870	
Language A	12.3	11.5	231	166	395	2.056	.05
Language B	21.1	20.9	231	167	396	0.283	
Total Language	32.9	32.3	231	167	396	0.761	
Average	20.7	20.6	228	167	393	0.210	
<u>GRADE VI</u>							
Word Discrim.	23.7	21.0	60	66	124	1.877	
Reading	21.1	18.4	60	66	124	2.772	.01
Spelling	34.1	33.9	60	67	125	0.149	
Language A	20.8	19.2	60	67	125	1.982	.05
Language B	4.5	5.4	55	64	117	2.470	.05
Language C	24.3	23.8	60	66	124	0.746	
Total Language	49.1	47.8	60	67	125	0.923	
Lang. Study Sk.	13.3	13.3	58	52	108	0.042	
Arith. Concepts	22.5	21.5	60	66	124	0.809	
Arith. Comput.	22.9	22.5	60	66	124	0.320	
Social St. Sk.	15.3	11.8	54	66	118	5.108	.01

On the basis of this analysis, it was decided to combine the 1966 and 1967 results for Grades IV and VI and use only the 1967 results for Grade II.

8.

Norms were produced for all groups where there were 70 or more students.

Tables of mean scores on selected sub-tests and distributions of pupils by grade, ethnic origin and age group, were calculated.

A comparison was made between the mean scores of different ethnic groups in each grade and Region on each sub-test. On the basis of this analysis, it was decided which tables of stanines to publish. For example, there was no significant difference between the mean scores of white students in the Northwest Territories and white students in the Districts. Therefore, for white students, only Northwest Territories norms have been published in this report. (See Small School Section for an example of comparison tables and the rationale for deciding which groups to use.)

Analysis of the distribution of scores on the sub-tests indicate that the "general" (i.e., all pupils) group is not normally distributed. The comparisons of the mean scores of the different ethnic groups indicate significant differences. As a result of this analysis, it has been decided not to report "general" norms but to continue to report "Ethnic" norms.

#### SMALL SCHOOLS

Because there are some unique aspects of education associated with small schools in the North, it was decided to analyze the results of this group separately. As an experiment, schools with no more than six rooms and with a population almost all Eskimo were selected. It was hypothesized that the average score of the group containing all Eskimos in the Northwest Territories, and similarly the component sample from the two Districts, would be different from the small school sample.

The mean scores were compared using the "t" test of the significance of the differences. The following tables summarize the analysis. The other comparisons are very similar.

Note: For both the Small School and Eskimo samples, in Grade II, 1966 and 1967 results were not combined, whereas in Grades IV and VI they were.  
No age cut-off was applied to the small school sample.

Comparison Between  
Small Schools and All Eskimos in Northwest Territories

Sub-Test	Mean Esk.	Mean Small Schools	No. Esk.	No. Small Schools	d.t.	"t"	Sig. Diff.
<u>GRADE II - 1967 ONLY</u>							
Work knowledge	13.6	14.3	259	208	465	1.261	
Word Discrim.	22.4	23.1	257	205	460	0.947	
Reading	20.5	22.5	255	204	457	2.090	.05
Spelling	15.5	16.8	249	200	447	1.597	
Arithmetic A	20.5	22.0	258	207	463	2.146	.05
Arithmetic B	15.7	17.4	255	205	458	2.972	.01
Total Arithmetic	36.1	39.4	257	206	461	2.958	.01
Average	18.3	19.6	252	201	451	2.475	.05
<u>GRADE IV - 1966 AND 1967</u>							
Work knowledge	21.0	19.1	433	402	833	4.086	.01
Word Discrim.	19.5	17.4	433	402	833	4.576	.01
Reading	17.8	16.4	432	401	831	3.356	.01
Spelling	26.9	25.0	430	401	829	2.849	.01
Arith. Concepts	14.7	14.1	431	397	826	1.732	
Arith. Comput.	25.7	26.6	432	400	830	1.664	
Language A	12.3	12.0	426	397	821	1.053	
Language B	22.1	21.0	428	398	824	2.880	.01
Total Language	34.0	32.6	429	398	825	2.527	.05
Average	21.8	20.7	428	395	821	3.018	.01
<u>GRADE VI - 1966 AND 1967</u>							
Word Discrim.	25.7	22.3	174	126	298	3.272	.01
Reading	21.3	19.7	174	126	298	2.196	.05
Spelling	37.0	34.0	175	127	300	2.693	.01
Language A	20.8	19.9	175	127	300	1.789	
Language B	5.1	5.0	166	119	283	0.388	
Language C	24.1	24.0	174	126	298	0.064	
Total Language	49.6	48.4	175	127	300	1.181	
Lang. Study Sk.	14.5	13.3	158	110	266	2.311	.05
Arith. Concepts	23.4	22.0	173	126	297	1.613	
Arith Comput.	23.5	22.7	173	126	297	0.939	
Social St. Sk.	13.6	13.4	165	120	283	0.542	

Note: The same process was used in selecting all of the stanine groups.

In 1966, the small school sample had lower average scores on the tests than did the comparison groups. In 1967, this trend was reversed in Grade II. Further statistical investigation showed that the MacKenzie small school Grade II sample had the highest score of any Grade II group.

The small school sample in Grade II is significantly different from the total Grade II sample, as shown in the above table. It was found that this difference is not due to the influence of over-age pupils in small schools.

In hypothesizing differences in the small school sample, the direction of the difference was not stated but it was implied that the difference would be in favour of the total Grade II group. In 1966, this implication was in fact true, but in 1967, the situation was reversed. Examination of the data showed that this reversal was caused by the scores from the small schools in the MacKenzie District.

As a result of this inconsistency, it was decided, in spite of the differences shown in the above table, not to publish stanine norms for the Grade II small school sample.

Note: *The complete data is available in the Curriculum Section.*

NORM GROUPS

November-December stanines are available for the following groups:

Note: The \* indicates groups that were not combined with the 1966 results. (i.e., 1967 results only.)

<u>Norm Groups</u>	<u>Ethnic Origin</u>	<u>Grades</u>
Northwest Territories	Indian	II*, IV*, VI*
	White	II, IV, VI
	Eskimo	II, IV, VI
Mackenzie District	Indian	II*, IV*, VI*
	Eskimo	II*, IV, VI
Fort Smith	Indian	II*, IV*, VI*
Inuvik	Indian	II, IV
	Eskimo	II*, IV, VI
Arctic District	Eskimo	II, IV, VI
Keewatin Region	Eskimo	II, IV
Frobisher	Eskimo	II, IV
Arctic Quebec	Eskimo	II, IV
Small Schools		VI

NOTE ON NORMS

Measurements of behavioural characteristics (in this case "achievement") lack both an absolute zero (there is not likely to be NO achievement) and any guarantee that the units of measurement are equal throughout the range of the scale. For example, a gain of from 30 to 40 items correct on a test does not necessarily reflect the same change in underlying performance ability as does an increase in score from 90 to 100 items correct on the same test. Because of these conditions, the test score achieved by any one person has no meaning until it is interpreted in terms of the performance of other individuals. These "other individuals" should have characteristics similar to those of the tested person and it is for the purpose of this type of comparison with an appropriate group that these tables have been produced. Remember that it is also appropriate to compare an individual's score not only with that of a group to which he already belongs but with that of a group to which he may aspire.

STANINES

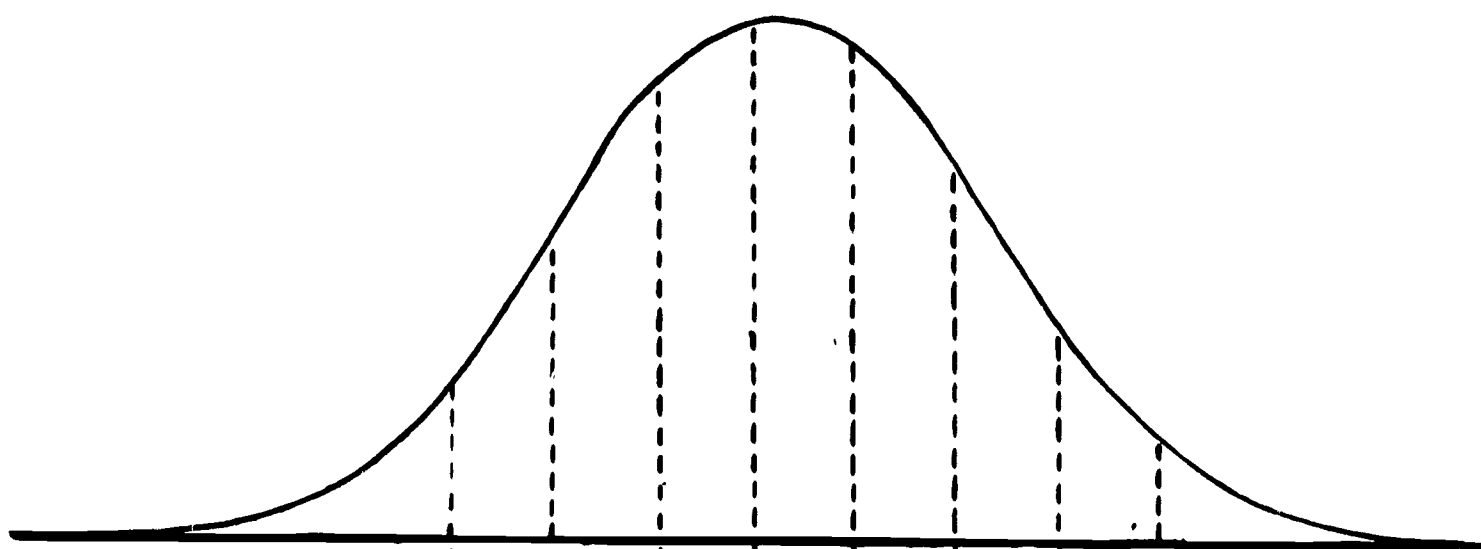
The norms are reported on a nine-point scale called a stanine scale, with the approximate percentage of the total norm group in each stanine as follows:

<u>Stanine</u>	<u>Percentage of Cases</u>	
1	4	Lowest
2	7	
3	12	
4	17	
5	20	
6	17	
7	12	
8	7	
9	4	Highest

Thus if a pupil scores at stanine 6 for his appropriate group, his score is between the 60th and 77th percentiles.



### The Stanine Scale



Stanine	1	2	3	4	5	6	7	8	9
Per Cent in Stanine	4%	7%	12%	17%	20%	17%	12%	7%	4%
Limits in Standard Scores	-1.75	-1.25	-.75	-.25	+.25	+.75	+1.25	+1.75	
Limits in Percentiles	4.0	10.6	22.7	40.1	59.9	71.3	89.4	96.0	

Technically, stanines are normalized standard scores having a mean of five and a standard deviation of two (almost). The stanine scale is a nine-point scale extending along the baseline of a normal distribution, with stanine five centred on the mean. Each stanine is one-half a standard deviation in width, except that stanine one includes all cases below a standard score of  $-1.75$ , and stanine nine includes all cases above a standard score of  $+1.75$ .

### HOW TO USE THE NORMS

It is assumed on the basis of the previous analyses that the small differences observed between the average scores of boys and girls on the Test Battery are not significant and, therefore, both sexes should be referred to the same set of norms.

The choice of an appropriate group with which to compare a pupil's score can best be done by the teachers, principals and superintendents who know the background, aspirations, age in relation to grade, number of years in school and other pertinent data which will affect the pupils' future. For example, it may be useful for some purposes to compare the score of an Indian or Eskimo pupil with the Norms of the sample of White pupils.

Note: The norms are calculated from the Raw Scores on the tests.

*Teachers simply score the tests, record the scores and consult the appropriate table in this publication.*

Here are some examples:

1. Simonie - Age 15 - Eskimo - Grade IV - Sir Alexander Mackenzie School - Inuvik - Reading Score 19.

The choice of an appropriate norm group for Simonie is difficult and can best be done by his teacher or principal. Sir Alexander Mackenzie School is a large school, Simonie is above the age-grade cut-off applied to the norms in this report. It is possible that Simonie's home is in a small community on the coast. It could well be that the "small school" norm tables (there was no age cut-off applied) would be the most appropriate in this case. The small school norms are on Page 49 and Simonie is in Stanine 6.

When compared to Eskimo pupils in the Inuvik Region, Simonie is in Stanine 4.

When compared to Eskimo pupils in the Northwest Territories, Simonie is in Stanine 5.

2. John - Age 15 - Indian - Grade VI - Thomas Simpson School - Reading Score 20.

The teacher may consider that the most appropriate group with which to compare John's raw score is "NWT Indian" - the table appears on Page 19. John scores in the 6 stanine. It may be known that John plans to attend secondary school and for this purpose it may be informative to compare his score with White pupils in the Northwest Territories. John places in the 3 stanine.

3. Davidee - Age 10 - Eskimo - Grade IV - Whale Cove School - Reading Score 18.

Since Whale Cove is a small school, the teacher would probably wish to compare Davidee's score with other Eskimo pupils in small schools. The table of norms is on Page 49. A score of 18 places Davidee in the 6 stanine in this group.

# NORTHWEST TERRITORIES

## STANINES CORRESPONDING TO RAW SCORES

N.W.T. INDIAN GRADE 2		N.W.T. INDIAN NORMS				NOVEMBER	
STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL
9	-27	-34	-39	-29	-35	-25	-55
8	26-21	33-31	38-33	28-24	34-32	24-21	54-49
7	20-17	30-28	32-24	23-20	31-27	20-18	48-43
6	16-14	27-23	23-19	19-15	26-24	17-15	42-36
5	13-12	22-19	18-15	14-10	23-21	14-11	35-31
4	11-10	18-15	14-12	9-7	20-17	10-9	30-25
3	9-8	14-12	11-10	6-5	16-15	8-8	24-20
2	7-6	11-10	9-7	4-3	12-10	7-5	19-15
1	5-	9-	6-	2-	9-	4-	14-

N.W.T.  
INDIAN  
GRADE 2

STAINES CORRESPONDING TO RAW SCORES

N.W.T.  
INDIAN  
GRADE 4

NOVEMBER

STATION	WORD KNOW.	WORD DISC.	READING	SPELLING	INDIAN NUMBERS	ARITHMETIC CONCEPT.	ALGEBRA	LANGUAGE	TOTAL
9	40	32	32	40	27	37	18	32	45
8	39-34	31-29	31-28	39-39	25-24	36-34	17-16	31-28	44-40
7	33-29	29-27	27-23	38-36	23-20	33-31	15-15	27-25	33-37
6	28-25	26-24	22-20	35-31	19-17	30-28	14-13	24-23	35-35
5	24-21	23-20	19-16	30-25	16-14	27-25	12-12	22-21	34-32
4	20-17	19-16	15-14	24-18	13-11	24-20	11-11	20-18	31-28
3	16-15	15-13	13-12	17-11	10-9	19-16	10-9	17-12	27-23
2	14-12	12-10	11-9	10-6	8-5	15-13	8-6	11-4	22-13
1	11-	9-	8-	5-	4-	12-	5-	3-	12-

N.W.T.  
INDIAN  
GRADE 4

STANINF'S CORRESPONDING TO RAW SCORES

N.W.T. INDIAN GRADE 6		N.W.T. INDIAN NORMS				NOVEMBER				
STANINE	WORD KNOW.	READING	SPELLING	A	B	C	TOTAL	LANG. STUDY	ARITHMETIC CONPT.	SOCIAL STUDY
9	-42	-31	-52	-27	-10	-30	-58	-24	-38	-20
8	41-33	30-22	51-48	26-24	9-9	29-28	57-50	23-22	37-34	34-33
7	37-34	27-26	47-45	23-22	8-8	27-26	55-53	21-20	33-30	32-30
6	33-23	25-24	44-41	21-20	7-7	25-24	52-48	19-18	29-26	29-26
5	27-25	23-21	40-37	19-17	6-5	23-22	47-44	17-16	25-23	25-23
4	24-21	20-18	36-32	16-15	4-4	21-20	43-40	15-13	22-20	22-19
3	20-17	17-14	31-27	14-13	3-3	19-19	39-38	12-10	19-17	13-17
2	16-12	13-9	26-21	12-11	2-2	13-17	37-36	9-8	16-14	16-15
1	11-	8-	20-	10-	1-	16-	35-	7-	13-	14-

N.W.T.  
INDIAN  
GRADE 6

STAVINES CORRESPONDING TO RAW SCORES

N.W.T.  
ESKIMO  
GRADE 2

NOVEMBER

STAVINE	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL
9	27-27	34-34	39-39	37-37	35-35	27-27	53-53
8	23-23	32-32	34-34	23-23	32-32	25-25	53-54
7	19-19	30-30	27-27	24-24	27-27	22-22	53-48
6	15-15	25-25	19-19	19-19	23-23	20-20	47-41
5	11-11	20-20	15-15	13-13	18-18	16-16	40-34
4	8-8	16-16	12-12	8-8	14-14	11-11	33-27
3	5-5	11-11	9-9	7-7	11-11	8-8	26-20
2	2-2	7-7	5-5	4-4	5-5	5-5	13-14
1	1-1	6-6	4-4	2-2	7-7	4-4	13-

N.W.T.  
ESKIMO  
GRADE 2



STANINES CORRESPONDING TO RAW SCORES

N.W.T. ESKIMO GRADE 4		N.W.T. ESKIMO NORMS					NDVFMRFER		
STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITHMETIC CONCEPT	LANGUAGE A	LANGUAGE B	TOTAL	
9	-35	-32	-31	-40	-26	-33	-20	-31	-49
8	34-30	31-29	30-27	39-39	25-23	37-35	19-18	30-28	43-45
7	29-27	28-25	26-24	33-37	22-19	34-32	17-16	27-26	44-41
6	26-23	25-22	22-20	36-32	14-16	31-29	15-14	25-24	40-37
5	22-19	21-18	19-16	31-26	15-13	23-25	13-12	23-22	36-33
4	18-16	17-15	15-13	25-19	12-11	24-21	11-10	21-19	32-29
3	15-13	14-12	12-11	18-13	10-8	20-17	9-7	18-17	28-25
2	12-10	11-9	10-9	12-8	7-6	16-13	6-5	16-13	24-20
1	9-	8-	5-	7-	5-	12-	4-	12-	19-

N.W.T.  
ESKIMO  
GRADE 4

STAINES CORRESPONDING TO RAW SCORES

N.W.T.  
ESKIMO  
GRADE 6

NOVEMBER

N.W.T. ESKIMO NORMS

STA- NINE	WORD KNOW.	READ- ING	SPELL- ING	A	B	C	LANGUAGE	TOTAL	LANG. STUDY	ARITHMETIC CONPT.	SOCIAL STUDY
9	44-49	33-38	51-56	29-34	10-15	32-37	64-69	64-69	23-28	36-41	22-27
8	42-39	32-29	50-49	28-27	9-9	31-30	63-60	63-60	22-21	33-31	21-20
7	38-34	28-26	43-46	25-25	8-8	29-28	59-55	59-55	20-19	30-29	19-17
6	33-29	25-22	45-42	24-23	7-7	27-26	55-53	55-53	18-16	28-27	16-15
5	23-24	21-20	41-34	22-21	6-5	25-24	52-50	52-50	15-14	25-22	14-13
4	23-19	19-16	33-29	20-19	4-4	23-23	49-45	49-45	13-12	21-18	12-11
3	18-14	15-14	28-25	18-16	3-3	22-21	44-40	44-40	11-10	17-14	10-9
2	13-12	13-12	24-20	15-14	2-2	20-18	39-34	39-34	9-8	13-10	8-7
1	11-	11-	19-	13-	1-	17-	33-	33-	7-	9-	6-

N.W.T.  
ESKIMO  
GRADE 6

STANINES CORRESPONDING TO RAW SCORES

N.W.T.  
WHITE  
GRADE 2

NOVEMBER

STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL
9	-34	-35	-46	-30	-38	-25	-60
8	33-31	34-33	45-43	29-28	37-36	24-22	59-56
7	30-25	32-31	42-37	27-23	35-33	21-19	55-51
6	24-19	30-28	36-28	22-18	32-30	18-17	50-44
5	18-15	27-24	27-20	17-14	29-25	10-14	43-38
4	14-12	23-19	19-15	13-10	24-21	13-10	37-32
3	11-8	18-15	14-11	9-6	20-17	9-7	31-25
2	7-5	14-11	10-6	5-3	16-13	6-4	24-17
1	4-	10-	5-	2-	12-	3-	16-

N.W.T.  
WHITE  
GRADE 2

## STAINES CORRESPONDING TO RAW SCORES

N.W.T. WHITE GRADE 4		N.W.T. WHITE TERMS				NOVEMBER		
STA- NAME	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITHMETIC CONCEPT	COMPUT. A	LANGUAGE B	TOTAL
9	-47	-35	-40	-41	-31	-37	-34	-53
8	46-45	35-35	39-37	40-40	30-28	36-34	33-32	52-50
7	44-42	34-33	36-34	39-39	27-24	33-32	31-29	49-47
6	41-37	32-31	33-30	38-36	23-21	31-30	28-27	46-43
5	36-31	30-28	29-26	35-31	20-18	29-28	26-24	42-39
4	30-25	27-24	25-22	30-25	17-15	27-25	23-22	38-34
3	24-20	23-18	21-17	24-18	14-12	24-21	21-19	33-30
2	19-15	17-13	16-13	17-10	11-10	20-17	18-17	29-27
1	14-	12-	12-	9-	9-	16-	16-	26-

N.W.T.  
WHITE  
GRADE 4

STANINES CORRESPONDING TO RAW SCORES

N.W.T. WHITE GRADE 6		N.W.T. WHITE NORMS					NOVEMBER				
STA- NINE	WORD KNOW.	READ- ING	SPELL- ING	A	B	LANGUAGE C	TOTAL	LANG. STUDY	ARITHMETIC CONPT. COMP.	SOCIAL STUDY	
9	-53	-41	-53	-30	-11	-34	-70	-22	-40	-37	-26
8	52-51	40-38	52-51	29-29	10-10	33-32	69-67	24-23	39-37	35-34	25-24
7	50-48	37-35	50-48	28-27	9-9	31-30	65-62	22-22	36-34	33-32	23-21
6	47-43	34-30	47-44	26-25	8-8	29-28	61-58	21-20	33-31	31-29	20-19
5	42-37	27-27	43-39	24-23	7-6	27-25	57-54	19-18	30-27	28-26	18-16
4	36-31	26-23	38-33	22-20	5-5	24-23	53-49	17-16	26-24	25-22	15-14
3	30-25	22-19	32-28	19-17	4-4	22-20	43-43	15-13	23-21	21-19	13-12
2	24-19	13-16	27-22	16-15	3-2	19-17	42-37	12-10	20-17	18-15	11-9
1	18-	15-	21-	14-	1-	16-	36-	9-	16-	14-	8-

N.W.T.  
WHITE  
GRADE 6

# ARCTIC DISTRICT

28/27.

ARCTIC  
ESKIMO  
GRADE 2

## STANINES CORRESPONDING TO RAW SCORES

ARCTIC ESKIMO GRADE ?	ARCTIC ESKIMO NORMS							NOVEMBER
	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	
9	-22	-33	-33	-29	-33	-28	-57	
8	21-19	32-30	32-28	28-25	32-29	27-25	56-51	
7	18-16	29-26	27-22	24-20	28-25	24-22	50-46	
6	15-13	25-22	21-18	19-15	24-20	21-20	45-39	
5	12-10	21-16	17-14	14-10	19-15	19-15	39-31	
4	9-7	17-14	13-11	9-7	14-12	14-10	30-23	
3	6-4	13-10	10-8	6-4	11-9	9-8	22-18	
2	3-2	9-6	7-5	3-2	8-7	7-5	17-12	
1	1-	5-	4-	1-	5-	4-	11-	

## STANINES CORRESPONDING TO RAW SCORES

ARCTIC ESKIMO GRADE 4		ARCTIC				ESKIMO NORMS				NOVEMBER	
STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITHMETIC CONCEPT	COMPUT.	A	LANGUAGE B	TOTAL		
9	-30	-29	-27	-39	-25	-38	-19	-29	-45		
8	29-25	28-25	26-23	38-37	24-21	37-35	18-17	28-27	44-41		
7	25-23	24-22	22-20	36-35	20-17	34-32	16-15	26-25	40-38		
6	22-20	21-19	19-17	34-28	16-14	31-28	14-13	24-23	37-34		
5	19-17	18-16	16-14	27-23	13-12	27-24	12-11	22-20	33-30		
4	16-15	15-13	13-12	22-17	11-10	23-20	10-9	19-18	29-27		
3	14-13	12-10	11-10	16-12	9-7	19-15	8-6	17-16	26-22		
2	12-10	9-7	9-7	11-7	6-5	15-12	5-4	15-12	21-18		
1	9-	6-	6-	6-	4-	11-	3-	11-	17-		

ARCTIC  
ESKIMO  
GRADE 4

STANINES CORRESPONDING TO RAW SCORES

ARCTIC  
ESKIMO  
GRADE 6

STANINE	ARCTIC										ESKIMO NORMS			NOVEMBER		
	WORD KNOW.	READING	SPELLING	A	B	C	LANGUAGE	TOTAL	LANG. STUDY	ARITHMETIC CONPT. COMP.	SOCIAL STUDY					
9	-34	-30	-48	-28	-9	-31	-63	-20	-33	-34	-22					
8	33-31	29-28	47-46	27-25	8-8	30-30	62-58	19-19	32-30	33-32	21-19					
7	30-28	27-24	45-42	24-23	7-7	29-28	57-54	18-17	29-27	31-29	18-17					
6	27-24	23-20	41-35	22-21	6-5	27-26	53-51	16-14	26-22	28-26	16-15					
5	23-19	19-16	34-31	20-19	4-4	25-24	50-46	13-12	21-18	25-21	14-12					
4	18-14	15-14	30-28	18-16	3-3	23-23	45-42	11-10	17-14	20-15	11-10					
3	13-12	13-13	27-23	15-14	2-2	22-21	41-37	9-8	13-11	14-10	9-7					
2	11-9	12-12	22-18	13-12	1-2	20-14	36-30	7-7	10-9	9-7	6-6					
1	.8-	11-	17-	11-	1-	13-	29-	6-	8-	6-	5-					

ARCTIC  
ESKIMO  
GRADE 6



## STAININES CORRESPONDING TO RAW SCORES

KEEWATIN ESKIMO GRADE 2		KEEWATIN ESKIMO NORMS					NOVEMBER	
STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	
9	-25	-34	-37	-30	-23	-23	-43	
8	24-21	33-32	36-33	29-29	27-26	22-21	47-44	
7	20-19	31-30	32-29	28-24	25-23	20-20	43-40	
6	17-15	29-24	28-21	23-18	22-20	19-17	39-35	
5	14-12	23-20	20-17	17-12	19-17	16-12	34-29	
4	11- 8	19-16	16-12	11- 8	16-12	11- 9	28-21	
3	7- 5	15-11	11- 8	7- 7	11- 9	8- 7	20-13	
2	4- 2	10- 8	7- 3	6- 4	8- 5	6- 5	12- 8	
1	1-	7-	2-	3-	4-	4-	7-	

KEEWATIN  
ESKIMO  
GRADE 2

STANINES CORRESPONDING TO RAW SCORES

KEEWATIN  
ESKIMO  
GRADE 4

KEEWATIN ESKIMO NORMS

NOVEMBER

STANINE	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITHMETIC CONCEPT	LANGUAGE		TOTAL	
						A	B		
9	-29	-30	-26	-40	-25	-38	-21	-30	-47
8	28-26	23-26	25-24	39-39	24-21	37-36	20-18	29-28	46-44
7	25-23	25-24	23-21	38-36	20-17	35-33	17-16	27-26	43-40
6	22-21	23-21	20-18	35-29	16-14	32-28	15-14	25-23	39-36
5	20-17	20-18	17-15	28-24	13-12	27-24	13-12	22-21	35-32
4	16-15	17-14	14-13	23-19	11-10	23-21	11-10	20-19	31-29
3	14-13	13-11	12-11	18-10	9-8	20-17	9-7	18-16	28-25
2	12-10	10-8	10-8	9-8	7-5	16-12	6-5	15-12	24-20
1	9-	7-	7-	7-	4-	11-	4-	11-	19-

KEEWATIN  
ESKIMO  
GRADE 4  
31.

STANINES CORRESPONDING TO RAW SCORES

FROBISHER ESKIMO GRADE 2		FROBISHER ESKIMO NORMS					NOVEMBER	
STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	
9	-21	-33	-28	-27	-32	-28	-55	
8	20-17	32-29	27-25	26-22	31-28	27-26	54-51	
7	16-13	28-25	24-20	21-18	27-24	25-24	50-46	
6	12-11	24-20	19-16	17-13	23-19	23-20	45-37	
5	10-9	19-16	15-13	12-9	18-15	19-16	36-31	
4	8-6	15-11	12-10	8-5	14-12	15-11	30-23	
3	5-3	10-7	9-7	4-3	11-9	10-9	22-21	
2	2-2	6-5	6-3	2-2	8-6	8-8	20-15	
1	1-	4-	2-	1-	5-	7-	14-	

FROBISHER  
ESKIMO  
GRADE 2

STANINES CORRESPONDING TO RAW SCORES

FROBISHER  
ESKIMO  
GRADE 4

NOVEMBER

STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITHMETIC CONCEPT	COMPUT. A	LANGUAGE B	TOTAL	
9	-29	-28	-28	-38	-24	-38	-19	-31	-45
8	28-26	27-23	27-23	37-36	23-18	37-34	18-16	30-29	44-41
7	25-22	22-21	22-20	35-34	17-16	33-30	15-15	28-26	40-39
6	21-18	20-19	19-17	33-29	15-13	29-25	14-13	25-24	38-34
5	17-15	18-16	16-13	28-24	12-11	24-22	12-10	23-21	33-30
4	14-13	15-14	12-11	23-18	10-9	21-20	9-6	20-19	29-26
3	12-11	13-11	10-9	17-13	9-7	19-17	5-5	18-17	25-22
2	10-9	10-9	8-7	12-6	6-5	10-13	4-4	16-12	21-17
1	8-	8-	6-	5-	4-	12-	3-	11-	15-

FROBISHER  
ESKIMO  
GRADE 4

33.

STATISTICS CORRESPONDING TO RAW SCORES

ARCTIC Q. ESKIMO GRADE 2		ARCTIC Q. ESKIMO NORMS				NOVEMBER	
STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL
9	-20	-32	-31	-27	-36	-29	-62
8	19-17	31-30	30-27	26-24	35-32	28-26	61-56
7	16-15	29-26	26-21	23-19	31-27	25-24	55-49
6	14-13	25-22	20-18	18-15	26-23	23-21	48-42
5	12-10	21-13	17-14	14-11	22-17	20-18	41-33
4	9- 3	17-15	13-11	10- 7	16-13	17-12	32-25
3	7- 6	14-12	10- 8	6- 4	12-11	11- 9	24-18
2	5- 4	11- 8	7- 6	3- 2	10- 9	8- 6	17-14
1	3-	7-	5-	1-	8-	5-	13-

ARCTIC Q.  
ESKIMO  
GRADE 2

STANINES CORRESPONDING TO RAW SCORES

ARCTIC Q. ESKIMO GRADE 4	ARCTIC Q. ESKIMO NORMS						LANGUAGE		NOVEMBER TOTAL
	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITHMETIC CONCEPT	COMPUT. A	B		
9	-28	-29	-26	-39	-23	-35	-18	-27	-43
8	27-26	28-26	25-22	38-36	22-19	34-33	17-17	26-25	42-40
7	25-23	25-21	21-19	35-29	18-16	32-31	16-14	24-23	39-36
6	22-19	20-18	18-16	28-26	15-14	30-29	13-12	22-21	35-32
5	18-17	17-15	15-14	25-20	13-12	28-25	11-10	20-19	31-29
4	16-15	14-13	13-12	19-15	11-10	24-19	9- 8	18-17	28-26
3	14-13	12-11	11-11	14- 9	9- 7	18-14	7- 6	16-14	25-21
2	12-10	10- 7	10- 7	8- 6	6- 6	13-10	5- 4	13- 6	20-15
1	9-	6-	6-	5-	5-	9-	3-	5-	14-

ARCTIC Q. 35.  
ESKIMO  
GRADE 4

# MACKENZIE DISTRICT

MACKENZIE  
INDIAN  
GRADE 2 36/37

## STANINES CORRESPONDING TO RAW SCORES

MACKENZIE INDIAN GRADE 2		MACKENZIE INDIAN NORMS					NOVEMBER
STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL
9	-27	-34	-39	-28	-35	-25	-55
8	26-21	33-31	38-34	27-24	34-32	24-21	54-49
7	20-17	30-23	33-24	23-20	31-27	20-18	48-43
6	16-14	27-23	23-19	19-15	26-24	17-15	42-36
5	13-12	22-19	18-15	14-10	23-21	14-11	35-31
4	11-10	18-15	14-12	9- 7	20-17	10- 9	30-25
3	9- 8	14-12	11-10	6- 5	16-13	8- 8	24-21
2	7- 6	11-10	9- 7	4- 3	12- 9	7- 6	20-16
1	5-	9-	6-	2-	8-	5-	15-

STANINES CORRESPONDING TO RAW SCORES

MACKENZIE INDIAN GRADE 4		INDIAN NORMS				MACKENZIE		INDIAN NORMS		NOVEMBER	
STAN-	WORD	WORD	READ-	SPELL-	ARITHMETIC	LANGUAGE	A	B	TOTAL		
NINE	KNOW.	DISC.	ING	ING	CONCEPT	CONPUT.					
9	-40	-32	-32	-40	-27	-37	-18	-32	-45		
3	39-34	31-29	31-28	39-39	20-24	35-34	17-16	31-28	44-40		
7	33-29	23-27	27-23	38-36	23-20	33-31	15-15	27-25	39-37		
6	28-25	26-24	22-20	35-31	19-17	30-28	14-13	24-23	36-35		
5	24-21	23-20	19-16	30-25	16-14	27-25	12-12	22-21	34-32		
4	20-17	19-16	15-14	24-18	13-11	24-20	11-11	20-19	31-29		
3	16-15	15-13	13-12	17-11	10-9	19-16	10-9	18-13	28-24		
2	14-12	12-9	11-9	10-6	8-5	15-13	3-6	12-5	23-17		
1	11-	8-	8-	5-	4-	12-	5-	4-	16-		

MACKENZIE  
INDIAN  
GRADE 4



STANINES CORRESPONDING TO RAW SCORES

MACKENZIE  
INDIAN  
GRADE 6

STA- NINE	WORD KNOW.	READ- ING	SPFLL- ING	LANGUAGE			TOTAL	LANG. STUDY	ARITHMETIC CONPT.	SOCIAL STUDY
				A	B	C				
9	-42	-31	-52	-27	-10	-30	-58	-24	-38	-20
8	41-38	30-28	51-48	26-24	9-9	29-28	57-56	23-22	37-34	34-33
7	37-34	27-26	47-45	23-22	8-8	27-26	55-53	21-20	33-30	32-30
6	33-28	25-24	44-41	21-20	7-7	25-24	52-48	19-18	29-26	29-26
5	27-25	23-21	40-37	19-17	6-5	23-22	47-44	17-16	25-23	25-23
4	24-21	20-18	36-32	16-15	4-4	21-20	43-40	15-13	22-20	22-19
3	20-17	17-14	31-27	14-13	3-3	19-19	39-33	12-10	19-17	18-17
2	16-12	13-9	26-21	12-11	2-2	18-17	37-36	9-3	16-14	16-15
1	11-	8-	20-	10-	1-	16-	35-	7-	13-	14-

MACKENZIE  
INDIAN  
GRADE 6

STANINES CORRESPONDING TO RAW SCORES

MACKENZIE  
ESKIMO  
GRADE 2

NOVEMBER

STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	ESKIMO NORMS	ARITH. PART A	ARITH. PART B	ARITH. TOTAL
9	-27	-34	-41	-30	-36		-25	-59
8	26-25	33-33	40-38	29-28	35-33		24-23	58-55
7	24-22	32-31	37-35	27-26	32-31		22-21	54-49
6	21-20	30-29	34-28	25-23	30-28		20-18	48-44
5	19-16	28-25	27-19	22-17	27-24		17-14	43-35
4	15-11	24-21	18-15	16-13	23-19		13- 9	34-31
3	10- 8	20-16	14-11	12-11	18-15		8- 6	30-24
2	7- 5	15-11	10- 6	10- 7	14-10		5- 3	23-14
1	4-	10-	5-	6-	9-		2-	13-

MACKENZIE  
ESKIMO  
GRADE 2

STANINES CORRESPONDING TO RAW SCORES

MACKENZIE  
ESKIMO  
GRADE 4

NOVEMBER

STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	MACKENZIE	ESKIMO NORMS	LANGUAGE		TOTAL
							ARITHMETIC CONCEPT	COMPUT. A	
9	-38	-33	-34	-41	-27	-37	-21	-32	-51
8	37-35	32-32	33-31	40-40	26-25	36-34	20-19	31-30	50-48
7	34-31	31-30	30-28	39-38	24-22	33-31	18-18	29-28	47-44
6	30-28	29-27	27-24	37-36	21-20	30-29	17-16	27-26	43-40
5	27-25	26-24	23-21	35-32	19-17	28-26	15-14	25-24	39-37
4	24-21	23-20	20-18	31-28	16-15	25-23	13-12	23-22	36-34
3	20-19	19-16	17-15	27-21	14-12	22-20	11-10	21-19	33-30
2	18-16	15-13	14-11	20-15	11-9	19-17	9-8	18-16	29-26
1	15-	12-	10-	14-	8-	16-	7-	15-	25-

MACKENZIE  
ESKIMO  
GRADE 4

F  
F.

STANINES CORRESPONDING TO RAW SCORES

MACKENZIE  
ESKIMO  
GRADE 6

STANINE	WORD KNOWN	READING	SPELLING	MACKENZIE			ESKIMO NORMS			TOTAL	LANG. STUDY	ARITHMETIC CONDPT.	SOCIAL STUDY	NOVEMBER
				A	B	C	A	B	C					
9	46	37	52	28	10	31	65	23	38	36	22			
8	45-42	36-31	51-50	27-27	9-9	30-29	64-61	22-22	37-35	35-31	21-20			
7	41-38	30-28	49-48	26-26	8-8	28-27	60-57	21-20	34-31	30-29	19-18			
6	37-34	27-25	47-45	25-25	7-7	26-25	56-54	19-18	30-28	28-27	17-15			
5	33-29	24-22	44-42	24-23	6-6	24-24	53-51	17-15	27-25	26-24	14-13			
4	28-24	21-20	41-34	22-21	5-5	23-22	50-49	14-13	24-23	23-22	12-11			
3	23-21	19-18	33-30	20-18	4-4	21-20	43-43	12-11	22-19	21-19	10-9			
2	20-16	17-15	23-22	17-14	3-2	19-15	42-37	10-8	18-17	18-17	8-7			
1	15-	14-	21-	13-	1-	14-	36-	7-	16-	16-	6-			

MACKENZIE  
ESKIMO  
GRADE 6

STANINES CORRESPONDING TO RAW SCORES

FORT SMITH  
INDIAN  
GRADE 2

NOVEMBER

STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	INDIAN NORMS	ARITH. PART A	ARITH. PART B	ARITH. TOTAL
9	-25	-33	-37	-28	-30	-25	-25	-59
8	24-20	32-30	36-32	27-24	35-34	24-21	24-21	58-52
7	19-16	29-27	31-23	23-20	33-30	20-18	20-18	51-46
6	15-13	26-23	22-19	19-15	29-26	17-15	17-15	45-39
5	12-11	22-19	18-15	14-9	25-22	14-11	14-11	38-34
4	10-9	18-15	14-12	8-7	21-18	10-9	10-9	33-27
3	9-7	14-12	11-9	6-4	17-14	8-8	8-8	26-22
2	6-5	11-9	8-6	3-2	13-11	7-5	7-5	21-17
1	4-	8-	5-	1-	10-	4-	4-	16-

FORT SMITH  
INDIAN  
GRADE 2

STANINES CORRESPONDING TO RAW SCORES

FORT SMITH  
INDIAN  
GRADE 4

FORT SMITH INDIAN NORMS

NOVEMBER

STANINE	WORD KNOW.	WORD DISC.	READING	SPELLING	CONCEPT	ARITHMETIC	LANGUAGE	TOTAL	
9	-30	-33	-32	-40	-27	-37	-19	-29	-45
8	37-32	32-30	31-28	39-38	26-24	36-35	18-18	28-27	44-41
7	31-28	29-27	27-23	37-35	23-20	34-32	17-16	26-25	40-38
6	27-23	26-23	22-19	34-30	19-16	31-29	15-14	24-23	37-36
5	22-19	22-19	18-16	29-22	15-13	28-26	13-12	22-21	35-32
4	18-16	18-15	15-14	21-15	12-11	25-23	11-11	20-18	31-29
3	15-13	14-12	13-12	14-11	10-8	22-18	10-9	17-15	28-24
2	12-11	11-9	11-9	10-7	7-5	17-14	8-7	14-5	23-17
1	10-	8-	8-	6-	4-	13-	6-	4-	16-

FORT SMITH  
INDIAN  
GRADE 4

STANINES CORRESPONDING TO RAW SCORES

FORT SMITH  
INDIAN  
GRADE 6

FORT SMITH INDIAN NOK 45 NOVEMBER

STANINE	WORD KNOW.	READ-ING	SPELL-ING	A	B	C	LANGUAGE	TOTAL	LANG. STUDY	ARITHMETIC CONPT.	SOCIAL STUDY
9	-46	-36	-51	-28	-10	-33	-95	-23	-36	-35	-22
8	45-41	35-32	50-48	27-25	9-9	32-30	64-58	22-21	35-33	34-32	21-20
7	40-36	31-28	47-45	24-23	8-8	29-28	57-54	20-19	32-30	31-29	19-19
6	35-31	27-25	44-41	22-21	7-7	27-25	53-51	18-17	29-26	28-26	17-16
5	30-27	24-22	40-37	20-19	6-5	24-23	50-47	16-15	25-23	25-23	15-13
4	26-22	21-20	36-32	19-17	4-4	22-21	46-42	14-12	22-20	22-19	12-11
3	21-17	19-17	31-27	16-15	3-3	20-19	41-39	11-9	19-15	19-17	10-9
2	16-11	16-14	26-22	14-12	2-2	18-16	38-36	8-7	14-13	16-13	8-7
1	10-	13-	21-	11-	1-	15-	35-	6-	12-	12-	6-

FORT SMITH  
INDIAN  
GRADE 6

## STAININES CORRESPONDING TO RAD SCORES

INUVIC INDIAN GRADE 2	WORD KNOW.	WORD DISC.	READ- ING	INUVIC	INDIAN WORDS	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	NOVEMBER
9	-25	-34	-41	-29	-36	-25	-25	-58	
8	24-21	33-33	40-35	28-27	35-32	24-21	24-21	57-50	
7	20-18	32-31	34-30	26-23	31-28	20-19	20-19	49-45	
6	17-16	30-28	29-23	22-19	27-25	18-17	18-17	44-41	
5	15-13	27-23	22-20	18-16	24-22	16-12	16-12	40-35	
4	12-11	22-18	19-13	15-11	21-19	11-9	11-9	34-29	
3	10-9	17-15	12-10	10-9	13-15	9-8	9-8	28-22	
2	8-7	14-12	9-7	8-6	14-12	7-7	7-7	21-14	
1	6-	11-	6-	5-	11-	6-	6-	13-	

INUVIC  
INDIAN  
GRADE 2



STANINES CORRESPONDING TO RAW SCORES

INUVIC  
INDIAN  
GRADE 4

NOVEMBER

STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	INDIAN NORMS	ARITHMETIC CONCEPT	COMPUT. A	LANGUAGE B	TOTAL
9	-37	-33	-32	-40	-23	-36	-19	-31	-48
8	36-34	32-31	31-31	39-39	27-24	37-34	18-17	30-29	47-43
7	33-29	30-23	30-25	38-37	23-20	33-32	16-15	28-26	47-39
6	28-26	27-25	24-22	36-34	19-18	31-28	14-13	25-24	38-37
5	25-23	24-21	21-19	33-23	17-16	27-24	12-12	23-22	36-34
4	22-21	20-17	18-15	27-24	15-12	23-20	11-11	21-20	33-32
3	20-19	16-14	14-13	23-20	11-10	19-16	10-10	19-18	31-29
2	18-16	13-5	12-11	19-14	9-8	15-14	9-8	17-15	28-24
1	15-	8-	10-	13-	7-	13-	7-	14-	23-

INUVIC  
INDIAN  
GRADE 4

47.

STANINES CORRESPONDING TO RAW SCORES

INUVIC  
ESKIMO  
GRADE 4

NOVEMBER

STA- NINE	WORD KNOW.	WORD DISC.	READ- ING	SPELL- ING	INUVIC	ESKIMO NORMS	ARITHMETIC CONCEPT	COMPUT. A	LANGUAGE B	TOTAL
9	-39	-33	-33	-41	-27	-37	-22	-32	-51	
8	38-36	32-32	32-30	40-40	26-25	36-34	21-20	31-30	50-48	
7	35-32	31-30	29-27	39-39	24-22	33-31	19-18	29-28	47-45	
6	31-29	29-27	26-23	38-37	21-20	30-29	17-16	27-26	44-41	
5	28-26	26-25	22-21	36-34	19-17	28-25	15-14	25-24	40-38	
4	25-22	24-21	20-18	33-29	16-15	24-22	13-12	23-23	37-36	
3	21-20	20-19	17-15	28-23	14-13	21-19	11-9	22-21	35-33	
2	19-17	18-16	14-11	22-15	12-11	19-17	8-7	20-19	32-28	
1	16-	15-	10-	14-	10-	16-	6-	18-	27-	

INUVIC  
ESKIMO  
GRADE 4

## STANINES CORRESPONDING TO RAW SCORES

N.W.T.  
SMALL SCHOOLS  
GRADE 4

N.W.T. SMALL SCHOOL NORMS

NOVEMBER

STANINE	WORD KNOW.	WORD DISC.	READING	READING	SPELLING	ARITHMETIC CONCEPT	ARITHMETIC CONCEPT	A	LANGUAGE B	TOTAL
9	32	30	29	40	26	40	20	30	46	
8	28	27	25	38	22	37	18	27	43	
7	24	23	21	35	18	34	16	25	38	
6	21	20	13	29	15	30	14	23	35	
5	18	16	15	23	13	26	12	20	31	
4	15	13	13	16	11	21	10	18	28	
3	13	10	11	10	8	17	8	15	24	
2	10	7	9	7	6	12	5	10	19	
1	9	6	8	6	5	11	4	9	18	

## SMALL SCHOOLS

N.W.T.  
SMALL SCHOOLS  
GRADE 4

AVERAGE SCORES ON  
SELECTED SUB-TESTS AND  
DISTRIBUTION OF PUPILS BY  
GRADE, ETHNIC ORIGIN AND AGE GROUP

Differences in average scores should be interpreted with great care.

These averages are reported to indicate trends and to allow teachers to see how older pupils perform in a given grade throughout the system.

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## NORTHWEST TERRITORIES

GRADE 2                      ESKIMO                      1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL
6.6- 6.11	1	12.0	13.0	9.0	28.0
7.0- 7. 5	4	8.5	20.0	12.0	28.8
7.6- 7.11	15	12.7	19.1	14.5	35.1
8.0- 8. 5	56	13.3	21.0	14.8	35.6
8.6- 8.11	67	13.1	20.2	15.4	34.7
9.0- 9. 5	35	14.8	21.2	16.7	37.0
9.6- 9.11	33	13.7	19.5	16.8	38.8
10.0-10. 5	23	15.1	21.5	19.0	41.3
10.6-10.11	25	13.5	20.8	14.2	33.1
11.0-11. 5	12	12.8	20.8	16.6	40.2
11.6-11.11	10	16.2	25.6	20.2	42.3
12.0-12. 5	9	14.7	20.6	19.5	40.7
12.6-12.11	4	10.0	14.0	12.7	27.5
13.0-13. 5	4	9.2	16.7	19.0	45.0
13.6-13.11	1	16.0	27.0	29.0	63.0
14.0-14. 5	4	11.5	13.2	18.5	41.7
14.6-14.11	2	13.5	17.0	21.0	43.5
NOT GIVEN	1	20.0	36.0	20.0	48.0
TOTAL	306	13.6	20.5	16.1	36.8

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## NORTHWEST TERRITORIES

GRADE 4                      ESKIMO                      1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
7.0- 7. 5	1	19.0	9.0	17.0	17.0	7.0
9.0- 9. 5	3	27.0	17.7	37.0	26.0	17.0
9.6- 9.11	8	23.4	19.4	33.3	25.1	16.0
10.0-10. 5	24	21.0	17.0	33.6	25.5	15.5
10.6-10.11	28	18.3	16.9	30.9	22.4	13.2
11.0-11. 5	32	20.0	18.4	32.6	25.5	14.7
11.6-11.11	34	17.9	16.1	30.4	25.2	12.8
12.0-12. 5	43	19.1	17.4	32.2	26.4	14.2
12.6-12.11	22	22.0	19.1	35.5	26.8	15.2
13.0-13. 5	18	18.8	17.3	34.6	25.6	13.5
13.6-13.11	19	15.2	12.7	29.8	27.9	13.5
14.0-14. 5	15	18.5	16.9	31.7	27.2	14.2
14.6-14.11	8	16.4	15.9	32.4	31.6	12.7
15.0-15. 5	3	13.7	18.0	35.3	22.3	14.3
15.6-15.11	3	13.0	13.3	33.7	29.0	14.3
16.0-16. 5	2	13.0	12.0	24.5	30.0	15.0
17.0-17. 5	2	17.5	15.5	21.0	31.0	13.0
18.6-18.11	1	19.0	20.0	26.0	32.0	11.0
NOT GIVEN	4	25.0	19.2	36.3	29.5	17.0
TOTAL	270	19.1	16.9	32.2	26.0	14.1

AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE  
NORTHWEST TERRITORIES

		GRADE 6	ESKIMO		1967	
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
10.0-10.5	1	32.0	22.0	54.0	11.0	19.0
11.0-11.5	5	30.8	24.8	51.2	23.6	23.0
11.6-11.11	7	21.9	19.0	45.9	19.3	18.7
12.0-12.5	5	27.6	21.4	52.2	21.0	24.4
12.6-12.11	15	29.1	21.6	53.6	25.0	24.0
13.0-13.5	20	22.3	19.1	46.1	21.0	21.3
13.6-13.11	19	21.1	17.8	46.1	23.7	21.7
14.0-14.5	7	22.7	19.6	50.4	20.6	23.9
14.6-14.11	10	22.7	20.2	51.0	27.3	24.7
15.0-15.5	5	27.2	22.2	50.4	24.6	24.0
15.6-15.11	10	21.7	18.8	47.6	26.4	24.1
16.0-16.5	5	15.8	15.0	45.8	22.6	22.0
16.6-16.11	3	13.7	14.0	43.7	16.7	15.0
18.0-18.5	1	7.0	9.0	23.0	9.0	10.0
NOT GIVEN	10	27.2	20.6	45.9	25.1	29.7
TOTAL	123	23.6	19.5	48.2	23.1	23.0

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## MACKENZIE DISTRICT

		GRADE 2	ESKIMO	1967		
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL	
6.6- 6.11	1	12.0	13.0	9.0	28.0	
7.0- 7. 5	2	10.5	27.0	15.0	35.0	
7.6- 7.11	7	14.7	19.7	12.3	35.7	
8.0- 8. 5	26	15.4	21.7	13.8	37.8	
8.6- 8.11	18	15.1	23.8	14.3	37.2	
9.0- 9. 5	14	19.9	28.1	17.5	41.3	
9.6- 9.11	11	16.0	22.2	15.7	40.5	
10.0-10. 5	8	18.9	26.5	20.0	47.0	
10.6-10.11	10	15.3	24.1	13.9	38.7	
11.0-11. 5	4	13.5	21.7	15.7	40.0	
11.6-11.11	6	19.0	28.8	20.3	41.5	
12.0-12. 5	2	20.5	30.5	25.0	62.5	
12.6-12.11	1	12.0	10.0	3.0	19.0	
13.0-13. 5	1	9.0	18.0	20.0	52.0	
14.0-14. 5	1	10.0	16.0	16.0	30.0	
TOTAL	112	16.1	23.7	15.5	39.5	



## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## MACKENZIE DISTRICT

GRADE 4

ESKIMO

1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
7.0- 7. 5	1	19.0	9.0	17.0	17.0	7.0
9.0- 9. 5	2	28.0	20.0	40.5	25.0	17.5
9.6- 9.11	1	24.0	36.0	53.0	34.0	18.0
10.0-10. 5	9	25.6	20.0	36.6	25.6	19.0
10.6-10.11	9	25.0	23.6	35.7	23.7	16.7
11.0-11. 5	8	25.6	25.6	39.4	25.0	16.2
11.6-11.11	6	24.7	22.8	38.0	27.0	16.2
12.0-12. 5	12	24.7	20.2	37.6	28.9	18.2
12.6-12.11	10	26.8	23.2	38.2	30.9	17.5
13.0-13. 5	4	19.5	23.2	38.3	29.8	14.0
14.0-14. 5	5	21.4	19.2	32.6	25.0	13.4
14.6-14.11	1	8.0	14.0	26.0	30.0	7.0
16.0-16. 5	2	13.0	12.0	24.5	30.0	15.0
NOT GIVEN	4	25.0	19.2	36.3	29.5	17.0
TOTAL	74	24.2	21.6	36.7	27.2	16.6

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## MACKENZIE DISTRICT

GRADE 6

ESKIMO

1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
10.0-10.5	1	32.0	22.0	54.0	11.0	19.0
11.0-11.5	4	31.8	24.0	50.8	24.0	25.3
11.6-11.11	4	24.7	20.2	47.3	22.3	22.0
12.0-12.5	4	32.0	23.5	54.8	24.0	26.5
12.6-12.11	10	33.8	23.7	54.7	26.3	25.1
13.0-13.5	8	29.0	22.7	52.1	26.1	28.1
13.6-13.11	5	29.6	19.8	47.8	25.2	25.6
14.0-14.5	3	26.7	19.7	46.3	26.0	29.3
14.6-14.11	4	21.0	21.7	45.5	26.0	24.2
15.0-15.5	3	28.3	19.7	46.0	20.3	20.7
15.6-15.11	3	21.7	18.3	47.7	25.0	22.7
16.0-16.5	2	21.5	18.0	47.0	25.0	25.0
NOT GIVEN	10	27.2	20.6	45.9	25.1	29.7
TOTAL	61	28.4	21.5	49.6	24.7	25.9

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

AGE GROUP YEAR/MONTH	GRADE 2		ESKIMO		1967	
	NO. PLPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL	
7.0- 7. 5	2	6.5	13.0	9.0	22.5	
7.6- 7.11	8	10.9	18.5	16.2	34.6	
8.0- 8. 5	30	11.4	20.4	15.7	33.6	
8.6- 8.11	49	12.4	18.8	15.8	33.8	
9.0- 9. 5	21	11.4	16.4	16.1	34.0	
9.6- 9.11	22	12.5	18.2	17.4	38.0	
10.0-10. 5	15	13.1	18.7	18.5	38.3	
10.6-10.11	15	12.3	18.4	14.4	29.1	
11.0-11. 5	8	12.5	20.2	17.0	40.2	
11.6-11.11	4	12.0	20.8	20.0	43.5	
12.0-12. 5	7	13.0	17.7	17.7	34.4	
12.6-12.11	3	9.3	15.3	16.0	30.3	
13.0-13. 5	3	9.3	16.3	18.7	42.7	
13.6-13.11	1	16.0	27.0	29.0	63.0	
14.0-14. 5	3	12.0	12.3	19.3	45.7	
14.6-14.11	2	13.5	17.0	21.0	43.5	
NOT GIVEN	1	20.0	36.0	20.0	48.0	
TOTAL	194	12.1	18.6	16.5	35.3	

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

GRADE 4

ESKIMC

1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. CUMPT.	ARITH. CONCEPT
9.0- 9. 5	1	25.0	13.0	30.0	28.0	16.0
9.6- 9.11	7	23.3	17.0	30.4	23.9	15.7
10.0-10. 5	15	18.1	15.1	31.9	25.5	13.4
10.6-10.11	19	15.2	13.7	28.6	21.8	11.5
11.0-11. 5	24	18.1	16.0	30.3	25.7	14.1
11.6-11.11	28	16.5	14.6	28.8	24.8	12.0
12.0-12. 5	31	16.9	16.3	30.3	25.4	12.6
12.6-12.11	12	18.1	15.7	33.3	23.4	13.3
13.0-13. 5	14	18.6	15.6	33.6	24.4	13.4
13.6-13.11	19	15.2	12.7	29.8	27.9	13.5
14.0-14. 5	10	17.0	15.7	31.3	28.3	14.6
14.6-14.11	7	17.6	16.1	33.3	31.9	13.6
15.0-15. 5	3	13.7	18.0	35.3	22.3	14.3
15.6-15.11	3	13.0	13.3	33.7	29.0	14.3
17.0-17. 5	2	17.5	15.5	21.0	31.0	13.0
18.6-18.11	1	19.0	20.0	26.0	32.0	11.0
TOTAL	196	17.2	15.2	30.6	25.5	13.2

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

		GRADE 6	ESKIMO		1967	
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
11.0-11. 5	1	27.0	28.0	53.0	22.0	14.0
11.6-11.11	3	18.0	17.3	44.0	15.3	14.3
12.0-12. 5	1	10.0	13.0	42.0	9.0	16.0
12.6-12.11	5	19.8	17.4	51.4	22.4	21.8
13.0-13. 5	12	17.7	16.7	42.4	17.7	16.7
13.6-13.11	14	18.0	17.1	45.4	23.1	20.2
14.0-14. 5	4	19.7	19.5	53.5	16.5	19.7
14.6-14.11	6	23.8	19.2	54.7	28.2	25.0
15.0-15. 5	2	25.5	26.0	57.0	31.0	29.0
15.6-15.11	7	21.7	19.0	47.6	27.0	24.7
16.0-16. 5	3	12.0	13.0	45.0	21.0	20.0
16.6-16.11	3	13.7	14.0	43.7	16.7	15.0
18.0-18. 5	1	7.0	9.0	23.0	9.0	10.0
TOTAL	62	18.8	17.5	46.8	21.5	20.0

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## NORTHWEST TERRITORIES

AGE GROUP YEAR/MONTH	GRADE 2		INDIAN			1967	
	NO. PUPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL		
6.6- 6.11	2	20.0	23.0	8.0	32.5		
7.0- 7. 5	26	13.9	19.6	12.5	33.9		
7.6- 7.11	27	13.1	18.8	12.1	32.9		
8.0- 8. 5	21	11.9	19.6	13.5	33.7		
8.6- 8.11	32	12.7	17.3	12.7	33.7		
9.0- 9. 5	27	12.0	18.3	13.8	34.7		
9.6- 9.11	16	14.3	18.7	11.9	30.5		
10.0-10. 5	10	13.5	17.5	14.0	38.9		
10.6-10.11	11	12.5	15.0	13.8	38.0		
11.0-11. 5	4	15.0	17.6	17.2	41.8		
11.6-11.11	4	11.0	19.2	12.7	35.0		
12.0-12. 5	4	14.5	20.0	21.2	43.5		
12.6-12.11	5	13.0	20.6	13.6	36.8		
13.0-13. 5	1	12.0	8.0	22.0	54.0		
13.6-13.11	1	7.0	17.0	10.0	26.0		
14.0-14. 5	2	13.5	12.5	21.5	40.0		
NOT GIVEN	2	12.5	10.5	8.0	28.0		
TOTAL	195	13.0	18.3	13.2	34.6		

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## NORTHWEST TERRITORIES

GRADE 4 INDIAN 1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
9.0- 9. 5	14	24.4	19.1	34.0	26.1	17.2
9.6- 9.11	17	26.4	19.4	34.0	25.0	15.3
10.0-10. 5	21	25.3	18.3	33.4	23.1	14.2
10.6-10.11	31	23.1	18.2	32.0	23.3	14.3
11.0-11. 5	16	20.7	18.3	29.2	23.4	13.2
11.6-11.11	20	20.8	16.8	33.5	29.0	17.3
12.0-12. 5	16	19.7	17.3	28.1	26.6	14.4
12.6-12.11	18	22.3	16.9	33.8	28.1	15.4
13.0-13. 5	6	21.6	17.0	29.8	26.0	13.3
13.6-13.11	7	23.1	17.7	30.1	24.6	15.1
14.0-14. 5	7	21.7	19.9	31.9	24.4	12.9
14.6-14.11	5	24.0	18.8	29.0	19.5	12.2
15.0-15. 5	1	9.0	19.0	0.0	0.0	17.0
15.6-15.11	1	24.0	17.0	43.0	36.0	23.0
16.6-16.11	1	28.0	25.0	41.0	33.0	20.0
NOT GIVEN	2	29.5	19.0	39.0	20.0	20.5
TOTAL	183	22.9	18.1	32.2	25.2	15.0

AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE  
NORTHWEST TERRITORIES

AGE GROUP YEAR/MONTH	GRADE 6		INDIAN		1967	
	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. CUMPT.	ARITH. CONCEPT
9.6- 9.11	1	28.0	27.0	51.0	27.0	25.0
10.0-10. 5	1	23.0	22.0	35.0	17.0	26.0
10.6-10.11	4	24.5	18.0	41.7	26.8	24.5
11.0-11. 5	6	29.3	23.0	53.3	25.2	26.2
11.6-11.11	10	30.3	22.5	47.5	23.6	24.1
12.0-12. 5	9	32.2	24.1	49.8	24.4	25.3
12.6-12.11	17	27.5	21.8	47.6	25.2	25.8
13.0-13. 5	22	27.7	22.5	46.0	23.5	23.5
13.6-13.11	18	27.9	22.2	44.4	23.1	24.4
14.0-14. 5	13	23.4	19.8	42.5	24.2	21.7
14.6-14.11	13	24.2	21.5	46.0	26.4	26.0
15.0-15. 5	12	22.1	19.8	43.8	25.1	22.3
15.6-15.11	8	20.5	19.0	38.0	21.3	19.6
16.0-16. 5	2	18.0	15.5	36.5	27.5	23.0
16.6-16.11	2	21.5	17.5	34.5	18.5	20.0
17.0-17. 5	1	24.0	17.0	43.0	33.0	27.0
NOT GIVEN	7	27.0	22.9	44.7	24.0	25.8
TOTAL	146	26.3	21.5	45.2	24.3	24.0



AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE  
MACKENZIE DISTRICT

		GRADE 2	INDIAN	1967		
AGE GROUP YEAR/MONTH	NU. PUPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL	
6.6- 6.11	2	20.0	23.0	8.0	32.5	
7.0- 7. 5	26	13.9	19.6	12.5	33.9	
7.6- 7.11	27	13.1	18.8	12.1	32.9	
8.0- 8. 5	19	12.4	19.9	14.3	35.1	
8.6- 8.11	32	12.7	17.3	12.7	33.7	
9.0- 9. 5	27	12.0	18.3	13.8	34.7	
9.6- 9.11	16	14.3	18.7	11.9	30.5	
10.0-10. 5	10	13.5	17.5	14.0	38.9	
10.6-10.11	11	12.5	15.0	13.8	38.0	
11.0-11. 5	4	15.0	17.6	17.2	41.8	
11.6-11.11	4	11.0	19.2	12.7	35.0	
12.0-12. 5	3	13.0	20.3	19.0	40.0	
12.6-12.11	5	13.0	20.6	13.6	36.8	
13.0-13. 5	1	12.0	8.0	22.0	54.0	
13.6-13.11	1	7.0	17.0	10.0	26.0	
14.0-14. 5	2	13.5	12.5	21.5	40.0	
NUT GIVEN	2	12.5	10.5	8.0	28.0	
TOTAL	192	13.1	18.3	13.2	34.6	

AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE  
MACKENZIE DISTRICT

		GRADE 4	INDIAN		1967		
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. CUMPT.	ARITH. CONCEPT	
9.0- 9. 5	14	24.4	19.1	34.0	26.1	17.2	
9.6- 9.11	17	26.4	19.4	34.0	25.0	15.3	
10.0-10. 5	21	25.3	18.3	33.4	23.1	14.2	
10.6-10.11	31	23.1	18.2	32.0	23.3	14.3	
11.0-11. 5	16	20.7	18.3	29.2	23.4	13.2	
11.6-11.11	18	22.2	16.9	34.0	29.5	17.3	
12.0-12. 5	16	19.7	17.3	28.1	26.6	14.4	
12.6-12.11	17	22.2	16.6	33.6	27.5	15.1	
13.0-13. 5	6	21.8	17.0	29.8	26.0	13.3	
13.6-13.11	7	23.1	17.7	30.1	24.6	15.1	
14.0-14. 5	7	21.7	19.9	31.9	24.4	12.9	
14.6-14.11	5	24.0	18.8	29.0	19.5	12.2	
15.0-15. 5	1	9.0	19.0	0.0	0.0	17.0	
15.6-15.11	1	24.0	17.0	43.0	36.0	23.0	
16.6-16.11	1	28.0	25.0	41.0	33.0	20.0	
NBT GIVEN	2	29.5	19.0	39.0	20.0	20.5	
TOTAL	180	23.0	18.1	32.2	25.2	14.9	

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## MACKENZIE DISTRICT

		GRADE 6	INDIAN		1967		
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT	
9.6- 9.11	1	28.0	27.0	51.0	27.0	25.0	
10.0-10. 5	1	23.0	22.0	35.0	17.0	26.0	
10.6-10.11	4	24.5	18.0	41.7	26.8	24.5	
11.0-11. 5	6	29.3	23.0	53.3	25.2	26.2	
11.6-11.11	10	30.3	22.5	47.5	23.6	24.1	
12.0-12. 5	9	32.2	24.1	49.8	24.4	25.3	
12.6-12.11	17	27.5	21.8	47.6	25.2	25.8	
13.0-13. 5	22	27.7	22.5	46.0	23.5	23.5	
13.6-13.11	18	27.9	22.2	44.4	23.1	24.4	
14.0-14. 5	13	23.4	19.8	42.5	24.2	21.7	
14.6-14.11	13	24.2	21.5	46.0	26.4	26.0	
15.0-15. 5	12	22.1	19.8	43.8	25.1	22.3	
15.6-15.11	8	20.5	19.0	38.0	21.3	19.6	
16.0-16. 5	2	18.0	15.5	36.5	27.5	23.0	
16.6-16.11	2	21.5	17.5	34.5	18.5	20.0	
17.0-17. 5	1	24.0	17.0	43.0	33.0	27.0	
NOT GIVEN	7	27.0	22.9	44.7	24.0	25.8	
TOTAL	146	26.3	21.5	45.2	24.3	24.0	

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

AGE GROUP YEAR/MONTH	GRADE 2	INDIAN	1967		
	NC. PUPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL
8.0- 8. 5	2	6.5	17.5	6.5	21.0
12.0-12. 5	1	19.0	19.0	28.0	54.0
TOTAL	3	10.7	18.0	13.7	32.0

68.

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

GRADE 4

INDIAN

1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
11.e-11.11	2	8.5	15.5	29.5	25.0	17.5
12.e-12.11	1	24.0	22.0	37.0	39.0	21.0
TOTAL	3	13.7	17.7	32.0	29.7	18.7

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

GRADE 6 INDIAN 1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. CUMPT.	ARITH. CONCEPT
TOTAL	0	0.0	0.0	0.0	0.0	0.0

70.

AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE  
NORTHWEST TERRITORIES

		GRADE 2	WHITE	1967		
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL	
6.0- 6. 5	1	18.0	19.0	28.0	63.0	
6.6- 6.11	19	15.5	22.6	14.4	37.9	
7.0- 7. 5	110	17.2	25.0	14.0	37.0	
7.6- 7.11	83	17.2	28.0	16.3	43.3	
8.0- 8. 5	17	11.0	18.5	15.0	38.2	
8.6- 8.11	10	15.4	17.6	13.8	38.4	
9.0- 9. 5	6	16.3	26.8	16.2	40.8	
9.6- 9.11	2	18.5	25.5	27.0	63.0	
10.0-10.11	1	4.0	4.0	9.0	33.0	
11.0-11. 5	1	12.0	21.0	1.0	14.0	
NLT GIVEN	1	28.0	31.0	9.0	36.0	
TOTAL	251	17.3	25.0	15.0	39.9	

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## NORTHWEST TERRITORIES

GRADE 4            WHITE            1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
7.0- 7. 5	1	22.0	25.0	33.0	9.0	7.0
8.0- 8. 5	5	33.2	27.2	39.0	26.6	20.4
8.6- 8.11	15	32.1	25.3	39.5	26.7	19.1
9.0- 9. 5	88	34.0	27.6	41.0	28.9	21.3
9.6- 9.11	80	36.4	28.3	42.2	28.8	20.9
10.0-10. 5	27	28.4	24.3	36.3	27.1	18.9
10.6-10.11	14	31.2	25.6	37.9	27.9	19.3
11.0-11. 5	7	26.0	20.1	36.9	27.9	16.9
11.6-11.11	6	29.0	24.2	36.7	28.0	19.3
12.0-12. 5	5	23.6	21.4	34.2	26.4	16.2
12.6-12.11	4	24.0	18.5	29.2	18.0	16.0
13.6-13.11	2	12.0	10.0	19.0	22.0	9.5
NOT GIVEN	3	25.7	20.7	41.0	25.7	15.0
TOTAL	257	32.9	26.5	39.8	28.1	20.1



72.

AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE  
NORTHWEST TERRITORIES

		GRADE 6	WHITE		1967	
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
10.0-10.5	2	47.5	35.0	62.5	24.0	29.0
10.6-10.11	19	38.4	29.7	57.8	30.6	30.4
11.0-11.5	70	40.9	28.6	56.9	27.5	29.4
11.6-11.11	51	37.7	27.4	55.4	28.2	29.6
12.0-12.5	30	31.8	23.8	50.2	24.7	25.9
12.6-12.11	14	31.5	23.4	47.9	23.4	24.9
13.0-13.5	9	34.9	24.8	47.3	23.9	25.8
13.6-13.11	2	26.5	22.7	50.3	23.0	25.3
14.0-14.5	2	26.0	23.5	47.5	22.0	21.5
14.6-14.11	2	33.5	23.0	50.5	26.0	29.0
16.6-16.11	1	15.0	19.0	45.0	22.0	24.0
NOT GIVEN	5	26.0	24.0	48.4	27.0	29.4
TOTAL	207	36.9	26.9	54.2	26.9	28.4

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## MACKENZIE DISTRICT

	GRADE 2	WHITE	1967		
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL
6.6- 6.11	16	14.9	22.2	13.8	35.8
7.0- 7. 5	106	17.2	24.8	13.9	37.7
7.6- 7.11	73	18.7	27.4	15.9	42.5
8.0- 8. 5	14	11.0	17.2	13.5	35.5
8.6- 8.11	10	15.4	17.6	13.8	38.4
9.0- 9. 5	6	16.3	26.8	16.2	40.8
9.6- 9.11	2	18.5	25.5	27.0	63.0
10.6-10.11	1	4.0	4.0	9.0	33.0
11.0-11. 5	1	12.0	21.0	1.0	14.0
NOT GIVEN	1	28.0	31.0	9.0	36.0
TOTAL	230	17.0	24.6	14.6	39.1

AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE  
MACKENZIE DISTRICT

		GRADE 4	WHITE		1967		
AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. CUMPT.	ARITH. CONCEPT	
8.0- 8. 5	5	33.2	27.2	39.0	26.6	20.4	
8.6- 8.11	10	32.9	24.7	41.2	26.0	18.1	
9.0- 9. 5	84	33.9	27.6	40.9	28.8	21.2	
9.6- 9.11	76	36.4	28.2	42.2	28.7	20.7	
10.0-10. 5	24	29.6	25.1	36.8	26.9	19.4	
10.6-10.11	14	31.2	25.6	37.9	27.9	19.3	
11.0-11. 5	6	27.0	20.8	37.7	27.2	18.0	
11.6-11.11	5	27.0	23.6	36.6	27.4	18.4	
12.0-12. 5	5	23.6	21.4	34.2	26.4	16.2	
12.6-12.11	4	24.0	18.5	29.2	18.0	16.0	
13.6-13.11	1	9.0	7.0	10.0	0.0	7.0	
NOT GIVEN	3	25.7	20.7	41.0	25.7	15.0	
TOTAL	237	33.1	26.6	40.1	28.1	20.1	

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## MACKENZIE DISTRICT

GRADE 6 WHITE 1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
10.0-10. 5	2	47.5	35.0	62.5	24.0	29.0
10.6-10.11	18	38.2	29.5	57.9	30.6	30.7
11.0-11. 5	67	40.9	28.8	57.0	27.5	29.4
11.6-11.11	51	37.7	27.4	55.4	28.2	29.6
12.0-12. 5	30	31.8	23.8	50.2	24.7	25.9
12.6-12.11	14	31.5	23.4	47.9	23.4	24.9
13.0-13. 5	9	34.9	24.8	47.3	23.9	25.8
13.6-13.11	1	36.0	24.0	50.5	20.5	26.0
14.0-14. 5	1	27.0	16.0	45.0	24.0	21.0
14.6-14.11	2	33.5	23.0	50.5	26.0	29.0
16.6-16.11	1	15.0	19.0	45.0	22.0	24.0
NOT GIVEN	5	26.0	24.0	48.4	27.0	29.4
TOTAL	201	37.0	26.9	54.2	26.9	28.5

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

AGE GROUP YEAR/MUNTH	GRADE 2		WHITE			1967
	NC. PUPILS	WORD KNOW.	READ- ING	ARITH. PART B	ARITH. TOTAL	
6.0- 6. 5	1	18.0	19.0	28.0	63.0	
6.6- 6.11	3	18.3	24.7	17.7	49.0	
7.0- 7. 5	4	17.0	29.8	14.7	42.0	
7.6- 7.11	10	23.2	32.4	18.7	48.7	
8.0- 8. 5	3	14.7	25.0	22.3	51.7	
TOTAL	21	19.9	29.1	18.8	48.6	

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

GRADE 4            WHITE            1967

AGE GROUP YEAR/MONTH	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
7.0- 7. 5	1	22.0	25.0	33.0	9.0	7.0
8.6- 8.11	5	30.6	26.4	36.2	28.0	21.2
9.0- 9. 5	4	36.5	29.5	42.8	30.7	22.5
9.6- 9.11	4	35.5	30.3	42.0	31.3	25.0
10.0-10. 5	3	19.3	17.7	32.7	29.3	14.7
11.0-11. 5	1	20.0	16.0	32.0	32.0	10.0
11.6-11.11	1	39.0	27.0	37.0	31.0	24.0
13.6-13.11	1	15.0	13.0	28.0	22.0	12.0
TOTAL	20	29.8	25.3	37.4	28.5	19.6

## AVERAGE RAW SCORES AND DISTRIBUTION OF PUPILS, BY AGE

## ARCTIC DISTRICT

AGE GROUP YEAR/MONTH	GRADE 6		WHITE		1967	
	NO. PUPILS	WORD KNOW.	READ- ING	LANG. TOTAL	ARITH. COMPT.	ARITH. CONCEPT
10.6-10.11	1	42.0	34.0	56.0	32.0	25.0
11.0-11.5	3	39.0	24.7	54.3	26.7	28.0
13.6-13.11	1	17.0	20.0	50.0	28.0	24.0
14.0-14.5	1	25.0	31.0	50.0	20.0	22.0
TOTAL	6	33.5	26.5	53.2	26.7	25.8

AVERAGE SCORES ON SUB-TESTS BY  
DISTRICT AND ETHNIC ORIGIN

These tables indicate average scores on the sub-tests grouping the pupils first of all by District, then by grade, then by ethnic origin. Again it should be stressed that differences in average score should be interpreted very carefully. Care should be taken not to reach conclusions which cannot be verified. These data could be used to construct hypotheses which may be tested by experiment later.



## AVERAGE SCORES BY ETHNIC ORIGIN

## ARCTIC DISTRICT

## GRADE II

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	NO. PUPIL
INDIAN	10.1	20.2	21.1	12.4	18.4	14.7	33.1	8
ESKIMO	11.1	19.4	18.7	13.0	18.3	16.5	34.3	406
WHITE	18.5	24.3	26.8	14.7	28.4	18.8	47.0	39

## GRADE IV

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITHMETIC CONCEPT COMPUT.	LANGUAGE TOTAL	NO. PUPIL	
INDIAN	16.2	15.4	17.6	21.0	17.2	11.0	19.0	5
ESKIMO	18.3	17.7	15.8	24.5	13.2	25.3	20.8	288
WHITE	31.6	26.6	26.2	30.3	20.3	23.9	23.5	34

AVERAGE SCORES BY ETHNIC ORIGIN

ARCTIC DISTRICT

GRADE VI

ETHNIC ORIGIN	WORD KNOW.	READING	SPELLING	A	B	C	LANGUAGE TOTAL	LANG. STUDY	ARITHMETIC CONPT.	SOCIAL STUDY	NO. PUPIL
ESKIMO	20.9	14.3	32.9	19.5	4.6	23.8	47.5	13.1	20.4	13.4	89
WHITE	36.6	29.8	37.9	22.1	6.7	25.3	54.2	16.7	27.5	16.9	20

## AVERAGE SCORES BY ETHNIC ORIGIN

## YELLOWKNIFE REGION

## GRADE II

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READ-ING	SPELL-ING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	NO. PUPIL
INDIAN	15.1	22.6	17.5	15.1	13.3	13.4	32.0	21
ESKIMO	16.8	25.0	24.5	19.0	22.9	16.2	39.1	67
WHITE	17.3	25.7	27.6	16.7	25.3	14.9	40.2	109

## GRADE IV

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READ-ING	SPELL-ING	ARITHMETIC CONCEPT COMPUT.	L A N G U A G E TOTAL	NO. PUPIL			
INDIAN	23.8	22.6	21.0	27.5	16.0	24.0	13.6	19.2	33.1	20
ESKIMO	23.7	22.5	21.0	29.8	15.5	27.4	14.2	22.0	36.2	31
WHITE	33.9	23.0	28.1	31.7	20.9	29.1	15.4	25.9	41.2	33

AVERAGE SCORES BY ETHNIC ORIGIN

INUVIK REGION

GRADE II

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	NO. PUPIL
INDIAN	14.8	23.7	21.8	16.7	23.5	14.2	36.5	81
ESKIMO	16.1	25.4	22.2	19.1	25.5	14.1	39.1	50
WHITE	17.2	25.8	25.4	17.6	26.5	15.4	40.5	109

GRADE IV

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITHMETIC CONCEPT	LANGUAGE	ARITH. TOTAL	NO. PUPIL		
INDIAN	24.4	21.9	20.5	29.5	16.1	25.2	12.4	22.7	34.3	69
ESKIMO	27.3	24.6	22.1	32.4	18.3	22.2	14.0	25.1	39.2	114
WHITE	34.2	27.8	22.4	30.2	20.7	26.8	15.7	24.3	40.0	85

AVERAGE SCORES BY ETHNIC ORIGIN

INUVIK REGION

GRADE VI

ETHNIC ORIGIN	WORD KNOW.	READING	SPELLING	L A N G U A G E			LAWG STUDY	ARITHMETIC CONPT. COMP.	SOCIAL STUDY	NO. PUPIL		
				A	B	C						
				TOTAL								
INDIAN	25.6	20.6	37.9	18.9	5.1	22.6	46.5	14.0	22.6	22.8	12.6	67
ESKIMO	31.7	24.0	42.1	22.5	5.5	24.3	52.1	16.5	26.4	25.2	13.9	73
WHITE	36.6	26.9	39.8	21.3	6.3	24.3	52.2	17.9	27.9	25.8	16.2	78

AVERAGE SCORES BY ETHNIC ORIGIN

FORT SMITH REGION

GRADE II

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	NO. PUPIL
INDIAN	13.1	20.1	17.9	13.2	23.2	13.1	36.2	199
ESKIMO	5.0	21.0	12.0	6.5	15.5	5.5	21.0	2
WHITE	15.9	23.4	22.0	15.5	25.4	13.8	39.3	190

GRADE IV

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITHMETIC CONCEPT	LANGUAGE	ARITH. TOTAL	NO. PUPIL
INDIAN	22.1	20.3	18.1	24.7	26.5	12.1	32.6	167
WHITE	31.4	26.0	25.1	29.4	27.8	15.1	40.2	173

## AVERAGE SCORES BY ETHNIC ORIGIN

## FORT SMITH REGION

## GRADE VI

ETHNIC ORIGIN	WORD KNOW.	READING	SPELLING	A	L	A	N	G	U	A	G	E	TOTAL	LANG STUDY	ARITHMETIC CONPT.	SOCIAL STUDY	NO. PUPIL
INDIAN	28.7	23.6	37.0	19.3	5.2	24.0	47.7	14.9	24.5	24.0	13.8	131					
ESKIMO	17.5	13.5	30.0	18.5	5.5	22.5	46.5	9.5	27.0	26.5	0.0	2					
WHITE	37.5	27.7	38.9	22.4	6.5	25.9	54.3	18.0	27.8	26.5	16.6	137					

AVERAGE SCORES BY ETHNIC ORIGIN

MACKENZIE DISTRICT

GRADE II

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	NO. PUPIL
INDIAN	13.1	20.1	18.4	13.4	21.7	12.9	34.2	170
ESKIMO	16.1	25.5	23.6	19.0	24.4	15.1	39.1	97
WHITE	17.2	24.7	24.4	16.4	25.7	14.5	39.9	408

GRADE IV

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITHMETIC CONCEPT COMPUT.	LANGUAGE TOTAL	NO. PUPIL
INDIAN	23.1	21.0	18.0	25.9	15.0	25.3 12.0 20.3 32.3	150
ESKIMO	26.5	24.2	21.6	31.3	17.7	26.5 14.0 24.5 38.6	145
WHITE	32.6	27.1	27.0	30.3	11.6	28.0 15.3 25.4 40.5	391



AVERAGE SCORES BY ETHNIC ORIGIN

MACKENZIE DISTRICT

GRADE VI

ETHNIC ORIGIN	WORD KNOW.	READING	SPELLING	A	B	C	LANGUAGE TOTAL	LANG STUDY	ARITHMETIC CONPT.	SOCIAL STUDY	NO. PUPIL
INDIAN	27.3	22.0	38.0	18.2	5.5	22.8	46.2	15.4	24.5	12.1	114
ESKIMO	30.6	23.2	41.2	22.2	5.5	24.2	51.7	16.2	26.3	13.3	84
WHITE	37.7	27.9	40.2	22.7	6.7	25.8	55.0	18.3	23.7	15.6	309

AVERAGE SCORES BY ETHNIC ORIGIN

NORTHWEST TERRITORIES

GRADE II

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITH. PART A	ARITH. PART B	ARITH. TOTAL	NO. PUPIL
INDIAN	13.0	20.2	18.4	13.3	21.6	12.9	34.0	172
ESKIMO	13.3	21.7	19.1	15.3	20.2	16.4	36.2	589
WHITE	17.3	24.7	24.6	16.3	25.9	14.9	40.5	447

GRADE IV

ETHNIC ORIGIN	WORD KNOW.	WORD DISC.	READING	SPELLING	ARITHMETIC CONCEPT	LANGUAGE A	LANGUAGE B	ARITH. TOTAL	NO. PUPIL	
INDIAN	22.9	20.9	18.0	25.8	15.1	25.4	12.0	20.3	32.3	153
ESKIMO	21.0	19.5	17.8	26.9	14.7	25.7	12.3	22.1	34.0	433
WHITE	32.5	27.0	27.0	30.3	19.7	28.1	15.4	25.2	40.4	425

## AVERAGE SCORES BY ETHNIC ORIGIN

## NORTHWEST TERRITORIES

## GRADE VI

ETHNIC ORIGIN	WORD KNOW.	READING	SPELLING	LANGUAGE			TOTAL	LANG STUDY	ARITHMETIC CUNPT.	SOCIAL STUDY	NO. PUPIL
				A	B	C					
INDIAN	27.3	22.0	38.0	18.2	22.8	46.2	46.2	15.4	24.5	12.1	114
ESKIMO	25.6	21.2	36.9	20.8	24.0	47.5	47.5	14.5	23.3	13.6	173
WHITE	37.7	28.0	40.1	22.7	25.8	55.0	55.0	18.2	28.7	16.6	329