

## DOCUMENT RESUME

ED 094 008

95

TM 003 959

AUTHOR Bianchini, John C.; Loret, Peter G.  
 TITLE Anchor Test Study. Equivalence and Norms Tables for Selected Reading Achievement Tests (Grades 4, 5, 6).  
 INSTITUTION Educational Testing Service, Berkeley, Calif.  
 SPONS AGENCY Office of Education (DHEW), Washington, D.C.  
 REPORT NO 74-305  
 PUB DATE [74]  
 CONTRACT OEC-0-71-4758(248)  
 NOTE 97p.; For related documents, see TM 003 784-817  
 AVAILABLE FROM Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 (Stock Number 1780-01312, \$1.90)

EDRS PRICE MF-\$0.75 HC-\$4.20 PLUS POSTAGE  
 DESCRIPTORS \*Elementary School Students; \*Equated Scores; Grade 4; Grade 5; Grade 6; \*Manuals; National Norms; \*Norms; Raw Scores; Reading Comprehension; \*Reading Tests; Schools; Standardized Tests; Tables (Data); Test Results; Vocabulary  
 IDENTIFIERS \*Anchor Test Study; California Achievement Tests; Comprehensive Tests of Basic Skills; Gates MacGinitie Reading Test; Iowa Test of Basic Skills; Metropolitan Achievement Tests; Sequential Tests of Educational Progress; SRA Achievement Series; Stanford Achievement Tests

## ABSTRACT

This user's manual contains the major products of the data collection of the Anchor Test Study, a 34 volume report equating scores of eight widely used reading tests for grades 4, 5, and 6 in reading comprehension, vocabulary, and total reading. This manual provides: (1) equivalency tables which allow transformation of raw scores on one reading test to those of another, (2) new national individual and school mean norms tables, and (3) instructions for the use of the tables. Data are provided for the following eight tests: California Achievement Tests (1970), Comprehensive Tests of Basic Skills (1968), Gates MacGinitie Reading Tests (1964), Iowa Tests of Basic Skills (1971), Metropolitan Achievement Tests (1970), Sequential Tests of Educational Progress (1969), SRA Achievement Series (1971), and Stanford Achievement Tests (1964). In addition to providing procedures (with illustrative examples) for using the data, the manual contains a brief summary of the study design and analyses. (Author/RC)

# ANCHOR TEST STUDY

## Equivalence and Norms Tables for Selected Reading Achievement Tests (Grades 4, 5, 6)

by  
Peter G. Loret  
Alan Seder  
John C. Bianchini  
and  
Carol A. Vale  
Educational Testing Service  
Berkeley, California

U.S. DEPARTMENT OF HEALTH  
EDUCATION & WELFARE  
NATIONAL INSTITUTE OF  
EDUCATION  
THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Casper W. Weinberger, Secretary  
Charles B. Saunders, Jr., Acting Assistant Secretary for Education  
Office of Education  
John Ottina, Commissioner

TM 003 959

"The purpose and duties of the Office of Education shall be to collect statistics and facts showing the condition and progress of education in the United States, and to disseminate such information respecting the organization and management of schools and school systems, and methods of teaching, as shall aid the people of the United States in the establishment and maintenance of efficient school systems, and otherwise promote the cause of education throughout the country."—General Education Provisions Act, sec. 403a (20 U.S.C. 1221c).

This manual was prepared under Contract No. OEC-0-71-4758 (248) by Educational Testing Service and submitted to the National Center for Educational Statistics, Office of Education, USDHEW. Since the contractor was encouraged to exercise professional judgment in its preparation, this manual does not necessarily reflect Government policies. In particular no official endorsement of the tests mentioned here in should be inferred.

**U.S. GOVERNMENT PRINTING OFFICE  
WASHINGTON: 1974**

## FOREWORD

Reading tests are widely used in measuring the effectiveness of national and State education programs. The usefulness of such tests, unfortunately, has been hampered by the unavailability of a suitable method of comparing scores obtained on different tests.

The Office of Education undertook to devise an approach to equating scores from different reading tests. The tables in this manual—a principal result of that undertaking—are intended to facilitate conversion of a score on one of eight reading tests to an equivalent score on any one of the other seven tests.

Our hope is that this new approach will permit analysis of reading test-scores for children, with consequent insight into gains attributable to federally funded programs in education.

**Charles H. Hammer**  
*Data Requirements and Products Branch*

**Dorothy M. Gifford**  
*Assistant Commissioner*  
*for Educational Statistics*

## ACKNOWLEDGMENTS

Since many individuals and organizations contributed to this study and, therefore, to development of the manual, it is, unfortunately, not feasible to list all their names. An apology is herewith extended to those whose names have been omitted.

The study could not have been carried out without the cooperation and support of the Council of Chief State School Officers and the National Catholic Education Association. Other State education agency personnel, as well as various local school district and diocesan officials, were responsible for data-collection management, coordination, and recordkeeping. Within the schools, principals and teachers who organized and conducted the testing program ensured the high quality of the data.

The prominent educational administrators, evaluators, and researchers who made up the Anchor Test Study Advisory Council served as a consultative board during the study and were particularly useful in articulating the practical application of the study results.

Test publishers CTB/McGraw-Hill, Educational Testing Service, Harcourt Brace Jovanovich, Inc., Houghton Mifflin, Science Research Associates, and Teachers College Columbia University, permitted use of their tests and otherwise cooperated in the study.

Significant contributions were made by Office of Education staff. Richard M. Jaeger (currently associate professor of education at the University of South Florida) directed development of study specifications, saw the effort through its initial stages, and has maintained an active interest. Charles H. Hammer served as technical/administrative monitor for the major portion of the effort. Harold Nisselson (currently with the Bureau of the Census, U.S. Department of Commerce) provided technical direction for development of the sampling specifications.

Walter N. Durost, Director, Test Service and Advisement Center, participated in the design phase and provided technical assistance throughout the course of the study.

The staff of the Berkeley, California, office of Educational Testing Service (ETS) was responsible for conduct of the study, data analysis, and reporting. Peter G. Loret served as ETS project director, and Alan Seder shared with him the general planning and conduct of the study, with particular emphasis on the invitational, data-collection, and scoring/reporting phases. John C. Bianchini and Carol A. Vale planned and executed all phases of data analysis. William H. Angoff, Richard S. Levine, and Frederick M. Lord, of ETS' Princeton, New Jersey, office, provided consultative assistance on methodology.

Morris H. Hansen, Thomas W. McKenna, and David W. Chapman, staff members of Westat Research, Inc., (under subcontract to ETS), were responsible for design of the study samples.

A final word of acknowledgment is due the more than 365,000 children whose test scores provided data of outstanding quality.

# CONTENTS

	Page
Foreword . . . . .	iii
Acknowledgments . . . . .	v
Introduction . . . . .	1
Use of Tables . . . . .	3
Equivalency Tables . . . . .	3
Individual Score Norms . . . . .	3
Comparability of Publishers' and Anchor Test Study Individual Score Norms . . . . .	5
School Mean Norms . . . . .	5
Use of Anchor Test Study Data With Publishers' Alternate Test Forms . . . . .	6
Summary of Study Design and Analyses . . . . .	7
The Samples . . . . .	7
Test Administrations . . . . .	7
Development of Equivalency Tables . . . . .	8
Use of Equivalency Tables . . . . .	8
Development of Anchor Test Study Norms . . . . .	10
<b>TABLES</b>	
Text Tables	
A.--Test editions, levels, and forms used in the Anchor Test Study data collection: 1972-73 . . . . .	1
B.--Test administration designs for the equating studies . . . . .	9
Equivalency Tables	
1.--Grade 4: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests . . . . .	12
2.--Grade 4: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests . . . . .	14
3.--Grade 4: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests . . . . .	16

Equivalency Tables--Continued

4.--Grade 4: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests . . . . . 19

5.--Grade 4: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests . . . . . 22

6.--Grade 4: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests . . . . . 25

7.--Grade 4: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests . . . . . 28

8.--Grade 4: Raw scores for the Sequential Tests of Educational Progress, STEP Series I, 1969 edition, and equivalent raw scores for selected other reading tests . . . . . 30

9.--Grade 5: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests . . . . . 32

10.--Grade 5: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests . . . . . 34

11.--Grade 5: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests . . . . . 36

12.--Grade 5: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests . . . . . 38

13.--Grade 5: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests . . . . . 42

14.--Grade 5: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests . . . . . 45

15.--Grade 5: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests . . . . . 48

16.--Grade 5: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests . . . . . 50

17.--Grade 6: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests . . . . . 52

18.--Grade 6: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests . . . . . 54

19.--Grade 6: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests . . . . . 56

20.--Grade 6: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests . . . . . 58

21.--Grade 6: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests . . . . . 62

22.--Grade 6: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests . . . . . 64

23.--Grade 6: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests . . . . . 68

24.--Grade 6: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests . . . . . 70

**Individual Score Norms Tables**

25.--Grade 4: Individual score norms ..... 73  
26.--Grade 5: Individual score norms ..... 76  
27.--Grade 6: Individual score norms ..... 79

**Norms' Comparison Table**

28.--Comparison of selected Anchor Test Study percentile ranks with publishers' corresponding percentile ranks ..... 82

**School Mean Norms Tables**

29.--Grade 4: School mean norms ..... 84  
30.--Grade 5: School mean norms ..... 87  
31.--Grade 6: School mean norms ..... 90



# INTRODUCTION

In the spring of 1968 the Office of Education conducted a Survey of Compensatory Education designed primarily to evaluate the effectiveness of the Elementary and Secondary Education Act (ESEA), title I, program. Evaluative data obtained from the survey included reading achievement test scores, but analysis of these scores was not feasible because of the number of different reading tests on which scores were reported. Scores for children who had taken different reading tests were not statistically comparable, in part because of variations in standardization procedures among test publishers. Thus, it was not possible to analyze reading test scores for samples of pupils that were sufficiently large or representative to provide useful information on the title I program.

In 1969, the Office of Education awarded a contract to Scientific Educational Systems, Inc., to study the feasibility of equating reading achievement tests. Results of the feasibility study proved positive and the Office of Education subsequently devoted several man-years of work to developing specifications for equating and norming a

number of widely used reading tests. In 1971, a contract for carrying out such equating and norming was awarded to Educational Testing Service (ETS). Because the basic design of the study required one test as the common base (or "anchor") through which all other tests were to be equated and normed, the effort subsequently became known as the "Anchor Test Study."

In April 1972, data were collected on seven reading tests. In April 1973, additional data were collected on the original anchor test (Metropolitan Achievement Test) and on an eighth test (Gates-MacGinitie Reading Test) not included in the original study. (See table A.) (It is expected that the results of these data collections, contained in a technical report consisting of 34 volumes and more than 15,000 pages, will be released in 1974. Plans are to make the report available from the National Institute of Education's Educational Resources Information Center [ERIC].) This user's manual contains the major products of the data collections on the eight tests: (1) equivalency tables which allow transformation of

**Table A.--Test editions, levels, and forms used in the Anchor Test Study data collection: 1972-73**

Test edition	Abbreviated test titles	Publisher	Form	Level used at grade:		
				4	5	6
Calif. Achievement Tests (1970 ed.)	CAT	CTB/McGraw-Hill	A	3	3	4
Comprehensive Tests of Basic Skills (1968 ed.)	CTBS	CTB/McGraw-Hill	Q	2	2	3
Gates-MacGinitie Reading Tests (1964 ed.)	GMT	Teachers College Columbia University	1M	Survey D	Survey D	Survey D
Iowa Tests of Basic Skills (1971 ed.)	ITBS	Houghton Mifflin	5	10	11	12
Metropolitan Achievement Tests (1970 ed.)	MAT	Harcourt Brace Jovanovich, Inc.	F	Elementary	Inter- mediate	Inter- mediate
Sequential Tests of Educational Progress, STEP Series II (1969 ed.)	STEP II	Educational Testing Service	A	4	4	4
SRA Achievement Series (1971 ed.)	SRA	Science Research Associates	E	Blue edition	Blue edition	Green edition
Stanford Achievement Tests (1964 ed.)	SAT	Harcourt Brace Jovanovich, Inc.	W	Inter- mediate I	Inter- mediate II	Inter- mediate II

W scores on one reading test to those of another, (2) new national individual and school mean norms tables, and (3) instructions for use of the tables. The equivalency and norms tables are for grades 4, 5, and 6 for the eight tests shown in table A.

Since this manual is intended to supplement, not replace, the descriptive, interpretive, and technical information provided by the publishers of tests used in the Anchor Test

Study, it is recommended that those who use the manual be thoroughly familiar with that information. The manual's primary aim is to provide a means through which Anchor Test Study raw-score equivalencies, individual norms, and school-mean norms may receive the widest possible distribution and use. In addition to providing procedures (with illustrative examples) for using the data, the manual contains a brief summary of the study design and analyses. (More substantive technical issues will be presented in the technical report.)

## USE OF TABLES

Three types of tables are presented: *equivalency tables*, tables of *individual score norms*, and tables of *school mean norms*.

### EQUIVALENCY TABLES

Test users may wish to (1) combine raw test scores from different reading tests without reference to a set of national norms (e.g., to combine individual pupils' test scores from several schools—which give *different* tests—without regard to their national percentile rank), or (2) compare directly summary statistical data, such as medians or quartiles, from two or more schools.

For these purposes, equivalency tables (tables 1-24) have been provided for each of the eight tests. There are separate sections in each equivalency table for Vocabulary, Reading Comprehension, and Total Reading scores at grades 4, 5, and 6. Raw scores for a single test are in the left-hand column. The equivalent raw scores for the other seven tests may be read directly from the other columns of the table.

*The sum of the equivalent raw scores for the Vocabulary and Reading Comprehension tests may NOT equal the equivalent raw score for Total Reading, though the difference will generally be small. Thus, it is more appropriate if the equivalent Total Reading raw score is obtained independently rather than as the sum of two parts. For example, an ITBS Vocabulary score of 25 is equivalent to a STEP II Vocabulary score of 21 at grade 4 (see table 4, page 19). An ITBS Reading Comprehension score of 50 is equivalent to a STEP II Reading Comprehension score of 23. An ITBS Total Reading score of 75 is equivalent to a STEP II Total Reading score of 43, whereas the sum of the two STEP II part scores given above is 44.*

#### Example 1—Conversion of raw scores from one test to another

To convert a pupil's grade 4 Reading Comprehension score on the ITBS to the equivalent raw score on the SAT: Turn to table 4 (ITBS - Reading Comprehension), enter the first column (Raw score), and read the equivalent raw score from the section headed "Equivalent raw scores" under the heading "SAT." Thus, a raw score of 39 on the ITBS, at grade 4, is equivalent to a raw score of 34 on the SAT.

#### Example 2—Comparison of summary data on two tests

Summary data typically include a raw-score distribution, its mean raw score (arithmetic average), standard deviation, the median raw score (the 50th percentile),  $Q_1$  (the 25th percentile), and  $Q_3$  (the 75th percentile).

The equivalency tables may be used for transforming the median raw score,  $Q_1$ , and  $Q_3$  from the raw-score scale of one test to that of another test. To convert a median Vocabulary raw score of 20 for one school on the STEP II at grade 5 to an equivalent median raw score on the GMT Test without reference to national norms: Turn to table 16 (STEP II - Vocabulary), page 48, enter the first column and find the raw score of 20. Then read across the row to the column headed GMT and find the equivalent raw score of 29.

*The mean raw score and standard deviation should not be treated in this same manner. To obtain the most accurate equivalent raw-score mean and standard deviation, transform individual scores for all pupils from their raw scores on one test to the equivalent raw scores of the other test. Means and standard deviations of the equivalent scores may then be computed.*

Note: The equivalency tables in this manual can be used directly only with those forms and levels of the various tests equated in the Anchor Test Study. For use of Anchor Test Study data with publishers' alternate test forms, see page 6.

### INDIVIDUAL SCORE NORMS

To obtain national percentile ranks and/or stanines for individual-pupil raw scores, refer to the Anchor Test Study individual-score norms (tables 25-27). These tables provide information about the relative level of pupil reading performance based on the Anchor Test Study norms sample—a randomly selected, stratified national sample of 4th-, 5th-, and 6th-grade pupils.

The Anchor Test Study norms contained in this manual are *spring* norms, since the test data were collected during April 1972 and April 1973. Use of these tables with *fall*

ing at grades 5, 6, and 7 is expected to yield generally appropriate national percentile ranks, if the *spring* norms developed for the preceding grade are applied. (As a consequence, the norms are inappropriate for 4th-grade pupils tested in the fall.) Use of Anchor Test Study *spring* norms with fall data from the next successive grade is likely to overestimate a pupil's national standing because reading skills tend to improve over the intervening period. Thus, a 5th grade pupil might be expected to obtain a slightly higher raw score in the fall than he would have obtained as a 4th grader in the preceding spring. The Anchor Test Study norms are not *directly* applicable to converted scores, grade equivalents, or expanded standard scores, because normative data are provided only for raw scores (i.e., number of questions answered correctly). To use the Anchor Test Study norms with these types of scores, it is first necessary to change these scores to raw scores by referring to the publishers' own interpretive manuals.

The tables of individual-score norms contain Anchor Test Study norms for individual pupils for grades 4, 5, and 6. A separate table for each grade shows percentile ranks and stanines for individual raw scores on Vocabulary, Reading Comprehension, and Total Reading.<sup>1</sup>

All norms tables are identically organized: each contains the normative information for all eight tests included in the Anchor Test Study. (Note: for use of Anchor Test Study normative data with publishers' alternate test forms, see page 6.) The tables should be used to compare relative performance of different pupils on one or more tests. The following sample data may help illustrate the most common uses:

Sample Pupil Data

Pupils	Grade	Test	Form/Level	Total Reading raw scores (spring)	Publisher's nat'l %ile rank
Peter	5	CTBS	Q/2	49	..
Alan	5	GMT	IM/Survey D	44	..
Chuck	5	MAT	F/Intermediate	54	..
Carol	5	SRA	E/Blue	..	63
Judy	6	CAT	A/4	58	83

Note that each of the five pupils has taken a different reading test, that Judy is the only 6th-grader, and that Total Reading raw scores are not available for Carol.

#### Example 1—Finding percentile ranks and stanines for raw scores

The sample data show that Peter, a 5th-grade pupil, has a Total Reading raw score of 49 on the CTBS. To find his national percentile rank and stanine based on Anchor Test Study individual score norms, locate the appropriate table for grade 5, Total Reading score (table 26, page 73). In the "Raw score" column, find

<sup>1</sup> The publishers of the GMT, ITBS, and SAT provide norms for Vocabulary and Reading Comprehension only. The publisher of STEP-II provides a Total Reading score only. However, when the appropriate publishers were consulted about the desirability of providing normative data for all three scores, they indicated that the information might indeed be useful to users of their

Peter's score of 49, then read across to the "CTBS" column, which shows an Anchor Test Study percentile rank of 32 and stanine of 4 for this score.

#### Example 2—Comparison of Anchor Test Study and publisher percentiles—raw score available

Judy, a 6th-grade pupil, has a Total Reading raw score of 58 and a publisher's national percentile rank of 83 on the CAT. To compare the publisher's national percentile rank with the Anchor Test Study national percentile rank, turn to table 27, page 76, to find the Anchor Test Study individual score norms for grade 6, Total Reading score. Find Judy's raw score (58) and read across to the column labeled "CAT," which shows the Anchor Test Study national percentile rank to be 84.

Note that the Anchor Test Study national percentile rank in the table is *slightly different from the test publisher's national percentile rank*. See page 5 for a discussion of comparability.

#### Example 3—Comparison of Anchor Test Study percentile ranks on different tests—raw scores available

In the sample data, Peter, Alan, and Chuck (all 5th-graders) have each taken a different reading test. Their Total Reading raw scores are: Peter (49 on the CTBS), Alan (44 on the GMT), and Chuck (54 on the MAT). To compare the Anchor Test Study national percentile ranks for these three pupils, turn to table 26, page 73, to find the norms for Total Reading score, grade 5. Find each pupil's score in the "Raw score" column, then read across until you find the appropriate entry under that test's name. Peter's 49 yields an Anchor Test Study national percentile rank of 32 on the CTBS, Alan's 44 yields 18 on GMT, and Chuck's 54 yields an Anchor Test Study national percentile rank of 50 on MAT. These Anchor Test Study national percentile ranks are now directly comparable because they are derived from the same norms sample. (See page 10 for a discussion of development of the norms.)

#### Example 4—Comparison of Anchor Test Study percentile ranks on different tests—raw score unavailable

In the sample data, Alan, a 5th-grade pupil, has a Total Reading raw score of 44 on GMT, but the record does not include the publisher's national percentile rank. Carol, also in the 5th grade, has taken the SRA-ACH, but the record indicates *only* her national percentile rank. To compare the Anchor Test Study national percentile ranks of these pupils, it is necessary to obtain the raw scores for both pupils.

First, obtain Carol's raw score by referring to the appropriate publisher's manual—in this case, page 22 of the publication *Rights Keys, Norms and Conversion Tables, Multilevel Edition, Forms E and F, 7-5789, (c) 1972, Science Research Associates*. The publisher's national percentile rank of 63 corresponds to a raw score of 66. Now turn to table 26, page 73, of this user's manual and obtain

Carol's Anchor Test Study national percentile rank, which is 65. Alan's comparable Anchor Test Study national percentile rank, found in the same table, is 18.

## COMPARABILITY OF PUBLISHERS' AND ANCHOR TEST STUDY INDIVIDUAL-SCORE NORMS

Comparisons of national percentile ranks for publishers' and Anchor Test Study individual-score norms show (for the levels and forms of the tests identified in table A) that, with two exceptions, the data yield essentially comparable national rankings of individual pupils. Selected Anchor Test Study percentile ranks and publishers' corresponding percentile ranks for individual-pupil norms are shown in table 28, page 79.

The differences between the publishers' national norms for CAT, CTBS, ITBS, MAT<sup>2</sup>, STEP-II, SRA and those for the Anchor Test Study data are generally small: most differences are less than 5 percentile-rank points. For the 1964 edition of the SAT and for the Reading Comprehension subtest of the GMT at grades 4 and 5, however, the differences between publishers' and Anchor Test Study norms are generally larger and more consistent throughout the score range than are those observed for the other six tests. The differences for the SAT tend to increase at successive grades, with smaller differences occurring at grade 4 and larger ones at grade 6. Users of the 1964 edition of the SAT should expect higher national percentile rankings when using the Anchor Test Study norms. The differences between publishers' and Anchor Test Study norms for the GMT Reading Comprehension subtest are generally smaller than those for the SAT, with the larger differences occurring at grade 4 and the somewhat smaller differences occurring at grade 5. Users of the GMT should expect higher national percentile ranks when using the Anchor Test Study norms for the GMT Reading Comprehension subtest.

## SCHOOL-MEAN NORMS

The Anchor Test Study school-mean norms in tables 29-31 provide a basis for determining the relative performance of individual schools in terms of national percentile ranks and stanines. The size of the school sample and the degree of cooperation obtained in the study were of such magnitude that the resulting school-mean norms provide reliable information for the interpretation of school performance.

*The school-mean norms tables should NOT be used in determining national percentile ranks for individual-pupil raw scores or for determining individual raw scores from national percentile ranks.*

<sup>2</sup>The Anchor Test Study norms for children in grades 4, 5, and 6 are based on the performance of pupils tested with a separate answer sheet version of the MAT. The publisher's norming study used a machine-scoreable test-book version for children in grade 4. Differences observed in the grade-4 norms may be partially or wholly attributable to this factor.

These data permit the user to translate a school's mean raw score into Anchor Test Study national percentile ranks and/or stanines. They provide information about the relative level of reading performance for individual schools (within or across districts or States).

Some test publishers do not provide school-mean norms as part of their interpretive information, partially because of the relatively small number of schools that may have participated in a publisher's norming study. In the absence of school-mean norms, some test users have determined the percentile rank of their school mean by using the publisher's norms tables for individual pupils. Others may have followed a publisher's recommendation that school medians be determined and that the school's percentile rank be estimated from individual-pupil norms. The availability of school-mean norms, through this study, provides a more accurate basis for evaluating school performance.

The Anchor Test Study school-mean norms tables contain data for grades 4, 5, and 6, with separate tables provided at each grade for Vocabulary, Reading Comprehension, and Total Reading scores. The tables are identically organized, providing *spring* normative information for all eight tests.

Two common uses of the school-mean norms tables will be (1) determination of an Anchor Test Study percentile rank corresponding to a school mean score and (2) comparison of the relative performance of two or more schools. The following sample data may be helpful in using these tables:

Sample School Data

School	Grade	Mean Vocabulary raw score	Test
Classical El. School	6	29	SAT
Lowell El. School	6	26	CAT
Keyes El. School	6	..	MAT

These sample data include three schools, each of which administered a *different* reading test to the 6th grade. Note that these data are based only on Vocabulary scores; they could just as readily have been based on Reading Comprehension or Total Reading scores.

### Example 1—Finding a school's Anchor Test Study national percentile rank

To determine the Anchor Test Study national percentile rank for given test results: The sample data show that the Keyes Elementary School gave the MAT to its 6th grade pupils; no mean Vocabulary raw score is provided for this school.

First, compare the school mean (arithmetic average of raw scores on the Vocabulary subtest for all 6th-graders in the Keyes School). Now turn to the proper table (table 31, page 87) for grade 6, Vocabulary. Assuming that the school's Vocabulary mean raw score for all 6th-graders is 35, find that score in the column

headed "Raw score" and read the appropriate Anchor Test Study national percentile rank in the column headed "MAT." The Anchor Test Study national percentile rank for a school mean of 35 is 50; this school mean of 35 falls within the 5th stanine.

#### **Example 2—Comparison of performance of two or more schools**

To compare performance of 6th-grade pupils at Classical and Lowell Elementary Schools, using the sample school data above: While the raw-score school means are available for both schools, they are based on two different tests. Table 31, page 87, contains the Anchor Test Study school-mean norms for grade 6, Vocabulary. Locate the mean raw score (29) for Classical Elementary School and find the corresponding Anchor Test Study percentile rank and stanine in the column entitled "SAT" (percentile rank of 72, stanine 6). Now enter the same table by locating the mean raw score (26) for Lowell Elementary School, and read the Anchor Test Study percentile rank and stanine in the column entitled "CAT"

(percentile rank of 89, stanine 7). These Anchor Test Study percentile ranks may now be compared.<sup>3</sup>

### **USE OF ANCHOR TEST STUDY DATA WITH PUBLISHERS' ALTERNATE TEST FORMS**

The Anchor Test Study equivalency tables, individual-score norms, and school-mean norms may be applied to scores obtained from the publishers' alternate (or parallel) test forms *only* by transforming these raw scores to those of the specific test form used in the Anchor Test Study. To carry out such a transformation, the user must refer to the appropriate publisher's manual to determine raw-score equivalents for alternate or parallel forms.

<sup>3</sup>To obtain percentile ranks for school means calculated to 1 decimal place, interpolate between adjacent percentile ranks.



## SUMMARY OF STUDY DESIGN AND ANALYSES

The Anchor Test Study was formulated by the Office of Education with the cooperation of several nationally recognized experts in reading, program evaluation, educational measurement, psychometrics, and sampling. The study was conducted by Educational Testing Service at Berkeley, California, with technical assistance from some of its staff members in Princeton, New Jersey. Westat Research, Inc., of Rockville, Maryland, served as subcontractor and consultant on sampling techniques and procedures.

The standardized reading tests included in the study are in wide use by school systems throughout the Nation. The test editions were the latest available from the publishers at the time of data collection. Test levels and forms were those recommended by the publishers as most appropriate for children in grades 4, 5, and 6.

The following information applies to the data collection of April 1972, which involved seven tests (exclusive of the GMT), and that of April 1973, which involved the MAT and the GMT. For a complete technical presentation on procedures, methodology, and analyses, refer to the technical report (when available).

### THE SAMPLES

For the April 1972 data collection, two nonoverlapping, stratified, random samples of schools were selected—one for norming and one for equating. The normative sample consisted of children in grades 4, 5, and 6 in 918 schools. The schools were selected to provide proper representation on each of the following variables:

- 1) Type of school: public, Catholic, and private non-Catholic.
- 2) Size of school system: district or county.
- 3) Percentage of minority children in the school or minority members in the community.
- 4) Income level of the immediate community in which the school is located.
- 5) Geographic region.
- 6) Degree of community urbanization, as determined by the 1970 census.

School participation in the 1972 normative study was outstanding: 838 of the 918 schools selected in the original normative sample participated; substitute schools were obtained to replace the original 80 that were unable to participate. Each substitute school was randomly selected from a group of schools comparable (on the six specific variables noted above) with the school originally selected.

The equating sample (445 school units, or 736 individual schools) was selected in essentially the same manner as was the norming sample. Because the equating design required that each testing unit be sufficiently large to include a minimum of two classes at each of the three grades, it was necessary to introduce additional conditions in the sampling procedures. Schools that did not have at least two classes at each grade were combined with a complementary school in the same system to form a school unit.<sup>4</sup> This permitted a counterbalanced order of test administration at each grade (i.e., administering a pair of tests in one sequence to half the pupils while administering the same test pair in the reverse order to the other half).

School cooperation in the 1972 equating study was also outstanding: 639 of the 736 schools selected in the original equating sample participated; substitutes were obtained for the other 97 schools. Each substitute school was randomly selected from the group of schools with identical school characteristics.

For the April 1973 data collection, 48 school-units were selected for joint administration of the GMT and the MAT, and 8 school-units were selected for alternate-forms administration of the GMT. The sample of schools originally selected for the 1972 data collection, and their alternates, formed the list from which schools were sampled for the 1973 data collection. The sampling procedure used in 1973 ensured a sample comparable in representation, on all major classification variables, with that used in 1972. Seventy-one percent of the selected schools in the sample agreed to participate. As in the 1972 data collection, substitute schools for those that declined to participate were chosen so as to maintain the representativeness of the overall sample.

### TEST ADMINISTRATIONS

In the norming administration, approximately 68,000 pupils at each of grades 4, 5, and 6 took the MAT reading subtests. The tests were administered between April 10 and April 28, 1972.<sup>5</sup>

<sup>4</sup> For public schools, school units were formed within the same school district whenever possible, or within the same county when necessary. For nonpublic schools, school units were formed within the same county whenever possible, or within the same State when necessary.

<sup>5</sup> All pupils enrolled in grades 4, 5, and 6 at a given school were either tested or identified as being absent on the day of testing. Handicapped pupils, including pupils with severe language impairments, were excluded from the study. Test scores of individuals and groups (classroom or school) judged invalid because of nonstandard testing conditions were treated as "absentee" data.

the equating administration, each pupil took a preassigned pair of reading tests pair consisting of Vocabulary and Reading Comprehension subsections). In the data collection, approximately equal numbers of pupils took each of the seven instruments as a first test and as a second test. About 135,000 pupils were tested, approximately 45,000 at each grade level. In the 1973 data collection, about 15,000 pupils were tested, approximately 5,000 at each grade level. The sample of pupils tested was considerably smaller in 1973 because only the GMT and the MAT were equated directly. The designs of the equating test administration in 1972 and 1973 are schematically shown in table B. Note that in the 1972 administration every reading test was paired with every other test in a counterbalanced order of administration; every test was also paired with its alternate form to obtain parallel-form reliability estimates. A total of 56 different pairs of tests (or test forms) was administered at each of the three grades, and a randomly selected group of about 800 pupils was assigned to each sequence of administration. The counterbalanced order of test administration was also used in the 1973 data collection.

*In both data collections, every test was also paired with its alternate form to obtain parallel-form reliability estimates. The alternate forms used were: CAT, Form B; CTBS, Form R; GMT, Form DM2M; ITBS, Form G; MAT, Form G; STEP II, Form B; SRA, Form F; SAT, Form X.*

## DEVELOPMENT OF EQUIVALENCY TABLES

The equating analysis utilized a frequency-estimation procedure which yielded estimated frequency distributions for each test and each order of administration, based on the performance of the total sample.<sup>6</sup> After separate frequency distributions were produced for the three test scores (Vocabulary, Reading Comprehension, and Reading Total) at each grade level, the equiprobable method of equating was applied in order to equate each test to each of the others. Results from the two sequences of test administration were then averaged to produce the equivalency tables contained in this manual.

## USE OF EQUIVALENCY TABLES

Some practical issues should be considered in using equivalent raw-score data. Tests differ in such characteristics as number of items, content, format, and difficulty level. Intercorrelations constitute the statistical measure of comparability among tests, and, ideally, should approach unity (1.0) if two tests are measuring essentially the same reading processes and are perfectly reliable. Since perfectly reliable tests rarely, if ever, occur, it is necessary to correct the observed correlations for unreliability. It is

<sup>6</sup>Every 4th-, 5th-, or 6th-grade pupil in the Nation, through the school he attended had a known probability of being selected to participate in the study. The appropriate school sample weight was applied to each pupil's score in order to estimate national test-score distributions. In computing individual pupil weights, the school weight was adjusted separately for boys and girls, by ability levels, and by ethnic characteristics, to reflect the degree of absenteeism. Theoretically, the estimated test-score distributions represent those that would have been obtained had all pupils in the Nation been tested at these three grades (excluding handicapped pupils and those with severe language impediments).

generally agreed that correlations of .95 or higher are sufficient for deriving equivalent scores. Of the 207 corrected intercorrelations obtained in the Anchor Test Study data collected in 1972 and 1973, only 20 might be considered significantly below .95, all 20 were above .89.

Another issue concerns the magnitude of the equating error obtained for individual equivalent scores in the Anchor Test Study. The equating error obtained for scores above the mean-chance score<sup>7</sup> is only a fraction of a raw-score point, ranging from 0.1 to 0.7, with 0.2 or 0.3 the most frequent values. For scores below the mean-chance score, the equating error is more variable and somewhat larger, ranging from 0.2 to a maximum of 2.8 raw-score points. Since the error of measurement associated with the tests ranges from about 3 raw-score points (for a test of 30 items) to about 5 raw-score points (for a test of 120 items), it is apparent that the equating errors associated with the equivalent scores are extremely small, relative to errors of measurement, for scores outside the chance range. Thus, the use of equivalent raw scores will result in essentially the same relative precision as the use of original raw scores.

A third issue concerns the usefulness of the equivalent scores with specific groups of children. The equivalent scores included in this manual generally apply equally well to each of the following subgroups: boys and girls; low-, middle-, and high-IQ children; middle socioeconomic-status children; and white children. The equivalent scores of certain tests for high- and low-socioeconomic-status children and for black and Spanish-surnamed children are somewhat different from those of other subgroups and from those of the total equating sample. These differences, however, may be partially, if not wholly, explained by the procedure used in selecting the equating sample—a procedure that maximized representation of the total student population at grades 4, 5, and 6, and did not maximize representation of any specific subgroup. Until this issue is resolved, the most appropriate guideline for using the equivalency tables in this manual with the subgroups noted above is that the user must exercise the best professional judgment in deciding which of these tests is best suited for the children and the reading program in a school or school district.

The effect of equating errors on group data (such as school or district means) will vary with the performance level of the group. Generally, the magnitude of the equating error for group means will be less than 0.5 raw-score points if the group mean is near or above the mean score of the Anchor Test Study norms sample. If the group mean is quite low, near the mean-chance score level, the magnitude of the equating error ranges from about 0.5 to 1.0 raw-score points, depending on which pair of tests is selected.

The Anchor Test Study equivalency tables are most appropriately used with test administrations conducted in the spring. However, results obtained when the same pair

<sup>7</sup>The mean-chance score, for tests that are scored by counting the number of correct responses, is the ratio of the number of items to the number of choices available for each item. For example, the mean-chance score for a 50-item test, with each item having 4 choices, is 50/4, or 12.5 raw-score points.



Table B... Test administration designs for the equating studies

1972 Design

CAT (1) CAT (2)	CAT (1) CTBS (2)	CAT (1) ITBS (2)	CAT (1) MAT (2)	CAT (1) STEP II (2)	CAT (1) SRA (2)	CAT (1) SAT (2)
CTBS (1) CAT (2)	CTBS (1) CTBS† (2) CTBS† (1) CTBS (2)	CTBS (1) ITBS (2)	CTBS (1) MAT (2)	CTBS (1) STEP II (2)	CTBS (1) SRA (2)	CTBS (1) SAT (2)
ITBS (1) CAT (2)	ITBS (1) CTBS (2)	ITBS (1) ITBS† (1) ITBS (2)	ITBS (1) MAT (2)	ITBS (1) STEP II (2)	ITBS (1) SRA (2)	ITBS (1) SAT (2)
MAT (1) CAT (2)	MAT (1) CTBS (2)	MAT (1) ITBS (2)	MAT (1) MAT† (1) MAT (2)	MAT (1) STEP II (2)	MAT (1) SRA (2)	MAT (1) SAT (2)
STEP II (1) CAT (2)	STEP II (1) CTBS (2)	STEP II (1) ITBS (2)	STEP II (1) MAT (2)	STEP II (1) STEP II† (2) STEP II† (1) STEP II (2)	STEP II (1) SRA (2)	STEP II (1) SAT (2)
SRA (1) CAT (2)	SRA (1) CTBS (2)	SRA (1) ITBS (2)	SRA (1) MAT (2)	SRA (1) STEP II (2)	SRA (1) SRA (2)	SRA (1) SAT (2)
SAT (1) CAT (2)	SAT (1) CTBS (2)	SAT (1) ITBS (2)	SAT (1) MAT (2)	SAT (1) STEP II (2)	SAT (1) SRA (2)	SAT (1) SAT (2)

1973 Design

GMT (1) GMT† (2)	GMT (1) MAT (2)
GMT† (1) GMT (2)	
MAT (1) GMT (2)	

Note: (1) Indicates test taken first  
 (2) Indicates test taken second  
 † Indicates alternate form

forms were equated at successive grades led to the conclusion that the equivalent scores are also applicable to fall test data. The equivalent scores contained in the manual, therefore, may be used with tests administered at any period of the school year, provided the test form is appropriate to that grade level.

## **DEVELOPMENT OF ANCHOR TEST STUDY NORMS**

Individual norms and school-mean norms were developed separately for part scores (Vocabulary and Reading Comprehension) and for Total Reading scores. The individual-score norms for the MAT were derived from the test administration previously described. For the other seven reading tests, individual norms were derived by matching each raw score with the percentile rank and stanine of the corresponding MAT equivalent score.

Thus, reliable individual norms were derived for all eight reading tests on the same sample of pupils. Because of the high reliability of the equating results, users of the Anchor Test Study norms are assured of accurate national pupil ranking for all eight reading tests.

The school-mean norms for the MAT are based on the weighted-mean scores of the 918 schools that participated in the norming study. The school-mean norms for the other seven reading tests were derived by converting individual MAT scores to their equivalent scores on each of the other seven tests. Thus, it was possible to calculate school means for all eight tests and to derive reliable school-mean norms.

# TABLES

---

Table 1--Grade 4: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY										READING COMPREHENSION									
CAT 1970	CTRS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	Equivalent Raw Score			
																Raw score	Equivalent Raw Score		
40	43	47	38	50	38	47	30	47	45	57	66	45	59	48	25				
39	41	44	37	50	36	41	29	41	44	47	64	45	57	46	29				
38	38	42	36	49	35	41	28	40	43	46	62	44	54	44	28				
37	37	40	36	46	34	40	28	39	41	44	61	44	54	44	28				
36	37	39	35	49	33	39	27	38	42	44	59	44	55	45	27				
35	36	38	34	48	32	39	26	37	41	42	58	43	54	47	27				
34	35	37	33	48	31	38	26	36	40	41	57	42	50	47	27				
33	34	36	32	47	30	37	25	35	42	40	56	42	49	48	26				
32	34	36	32	47	29	36	25	34	43	40	54	41	47	48	26				
31	33	35	31	46	28	35	24	33	46	40	52	40	46	47	24				
30	32	34	30	46	27	34	24	32	47	42	51	40	44	46	23				
29	31	33	29	45	26	33	23	31	48	41	49	39	43	45	22				
28	30	32	28	45	25	31	22	30	49	40	47	38	41	43	21				
27	29	31	27	44	24	30	22	29	46	39	46	38	40	42	20				
26	29	31	26	43	23	29	21	28	44	37	44	37	38	41	19				
25	28	30	24	42	22	27	21	27	42	36	42	36	37	40	18				
24	27	29	23	42	21	26	20	26	41	35	41	35	36	38	17				
23	26	28	22	41	20	25	19	25	40	34	40	34	34	36	16				
22	25	28	21	40	19	24	19	24	39	32	36	33	33	35	15				
21	24	27	20	38	18	22	18	23	37	30	34	31	31	33	15				
20	23	26	19	37	17	20	17	22	36	29	32	29	29	32	14				
19	22	25	17	36	16	19	17	21	35	27	30	28	27	31	13				
18	21	24	17	34	16	18	16	20	34	26	29	26	26	30	12				
17	19	23	16	33	15	16	15	19	33	25	28	24	24	28	11				
16	18	22	14	31	14	15	15	18	32	24	27	23	23	26	11				
15	17	20	13	29	13	14	14	17	31	23	26	21	21	24	11				
14	16	19	13	26	12	13	13	16	30	20	25	20	20	22	10				
13	15	18	12	24	11	12	12	15	29	18	24	18	18	20	9				
12	14	17	11	22	10	11	11	14	28	17	23	17	17	18	8				
11	13	16	10	19	10	11	10	13	27	16	22	16	16	17	8				
10	11	14	9	17	9	10	9	12	26	15	21	15	15	16	7				
9	10	13	9	15	8	9	8	11	25	14	20	14	14	15	7				
8	9	12	8	14	7	8	7	10	24	13	19	13	13	14	6				
7	8	11	7	12	6	7	6	9	23	12	18	12	12	13	5				
6	7	9	6	10	5	7	5	8	22	11	17	11	11	12	4				
5	6	8	5	8	4	6	5	7	21	10	16	10	10	11	4				
4	5	7	4	7	3	5	4	6	20	9	15	9	9	10	3				
3	4	6	3	6	2	4	3	5	19	8	14	8	8	9	3				
2	3	5	2	5	1	3	2	4	18	7	13	7	7	8	2				
1	2	4	1	4	0	2	1	3	17	6	12	6	6	7	1				
Number of items		40	50	50	38	42	30	47	45	50	48	45	48	46	30				



Table 2--Grade 4: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests

VOCABULARY										READING COMPREHENSION									
CTBS 1968	CAT 1970	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	CTBS 1968	CAT 1970	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969				
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score				
Equivalent raw score										Equivalent raw score									
40	40	47	48	50	36	47	30	45	47	52	56	45	59	48	35				
39	39	44	37	50	36	42	29	44	41	51	54	40	57	46	34				
38	38	42	36	49	35	41	28	43	40	50	52	43	55	43	33				
37	37	40	35	49	33	40	27	42	37	48	50	43	53	41	32				
36	36	39	34	48	32	39	27	41	37	48	58	43	51	41	31				
35	34	37	33	48	31	38	26	40	36	46	56	47	49	45	30				
34	33	36	32	47	30	37	25	38	34	45	54	41	48	39	29				
33	31	35	31	46	28	35	24	38	33	44	52	40	46	38	28				
32	30	34	30	46	27	34	24	37	32	42	50	40	45	36	27				
31	29	33	29	45	26	33	23	36	31	41	48	39	42	34	26				
30	28	32	28	44	25	31	22	35	30	39	47	38	41	33	25				
29	27	31	26	43	24	30	22	34	29	38	45	37	39	31	24				
28	26	30	25	43	23	28	21	33	28	37	43	36	38	30	23				
27	24	30	24	42	22	27	20	32	27	36	42	35	36	29	22				
26	23	29	23	41	21	25	20	31	26	35	40	34	35	27	21				
25	22	28	21	40	20	23	19	30	25	33	38	33	34	26	20				
24	21	27	20	39	19	22	18	29	24	32	37	32	33	25	19				
23	20	26	19	38	18	21	17	28	23	31	35	31	30	24	18				
22	19	25	18	36	17	19	17	27	22	30	34	31	29	23	17				
21	18	24	17	35	16	18	16	26	22	29	32	29	28	22	16				
20	18	23	16	34	15	17	16	25	22	28	31	28	26	21	15				
19	17	22	15	32	14	16	15	24	21	27	30	27	25	21	14				
18	16	21	14	30	14	15	14	23	20	26	28	26	24	20	13				
17	15	20	14	29	13	14	14	22	20	24	27	25	23	19	12				
16	14	19	13	27	12	13	13	21	19	23	26	24	24	19	11				
15	13	18	12	25	11	13	12	20	18	22	24	23	23	18	11				
14	12	17	11	22	11	12	11	19	18	21	23	21	22	17	10				
13	11	16	11	20	10	11	11	18	17	20	22	21	21	17	10				
12	11	15	10	18	9	10	10	17	16	18	21	20	20	16	10				
11	10	14	9	16	8	10	9	16	15	17	20	19	19	15	9				
10	9	13	8	15	8	9	8	15	15	16	19	17	18	14	9				
9	8	11	8	13	7	8	7	14	14	14	18	16	17	14	8				
8	7	10	7	12	6	7	6	13	13	13	17	15	16	13	7				
7	6	9	6	10	5	7	6	12	12	12	16	13	15	12	7				
6	5	8	5	9	4	6	5	11	11	11	15	12	14	11	6				
5	4	6	4	7	3	5	4	10	10	9	14	11	12	10	5				
4	3	4	3	6	3	4	3	9	9	8	13	10	11	9	5				
3	2	3	2	4	2	3	2	8	8	7	11	8	10	8	4				
2	1	2	1	2	1	2	1	7	7	6	10	7	9	7	3				
1	0	1	0	1	0	1	1	6	6	5	8	6	7	6	3				
Number of items										Number of items									
40	40	50	38	50	38	42	30	45	42	52	68	45	66	48	30				



Table 3--Grade 4: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

GMT 1964 Scale D Form IV Vocabulary Part 1	CAT 1970 Level 3 Form A Vocabulary Part 1	CTBS 1968 Level 2 Form B Vocabulary Part 1	ITBS 1971 Level 10 Form 5 Vocabulary Part 1	MAT 1970 Form 10 Form A Vocabulary Part 1	SAT 1964 Form 1 Form A Vocabulary Part 1	SRA/ACH 1971 Form 1 Form A Vocabulary Part 1	STEP II 1969 Form 4 Form 1 Vocabulary Part 1	Equivalent raw score	
								Raw score	Number of items
50	40	46	38	50	36	42	30	42	38
49	40	38	38	50	38	42	30	42	38
48	40	40	38	50	38	42	30	42	38
47	40	40	38	50	37	42	30	42	38
46	40	40	38	50	37	42	30	42	38
45	39	39	38	50	37	42	29	42	38
44	39	39	37	50	36	42	29	42	38
43	38	39	37	50	36	41	29	42	38
42	38	38	37	50	35	41	29	42	38
41	38	38	36	49	34	41	28	42	38
40	37	37	36	49	33	40	28	42	38
39	36	36	35	48	32	39	27	42	38
38	35	36	34	48	31	38	26	42	38
37	34	35	33	47	30	37	26	42	38
36	33	34	32	47	29	36	25	42	38
35	31	33	31	46	28	35	24	42	38
34	30	32	30	46	27	34	24	42	38
33	29	31	29	45	26	33	23	42	38
32	28	30	27	44	25	31	22	42	38
31	26	29	26	43	23	29	21	42	38
30	25	28	25	42	22	28	21	42	38
29	24	26	23	41	21	26	20	42	38
28	23	25	22	40	20	24	19	42	38
27	21	24	20	38	19	22	18	42	38
26	20	23	19	38	18	21	18	42	38
25	19	22	18	36	17	19	17	42	38
24	18	21	17	35	16	18	16	42	38
23	17	20	16	33	15	17	15	42	38
22	16	19	15	32	14	16	14	42	38
21	16	18	14	30	13	15	14	42	38
20	15	17	13	28	13	14	13	42	38
19	14	16	12	26	12	13	13	42	38
18	13	15	12	24	11	12	12	42	38
17	12	14	11	22	10	11	11	42	38
16	11	13	10	20	10	11	10	42	38
15	11	12	10	18	9	10	10	42	38
14	10	11	9	17	9	10	9	42	38
13	9	10	9	15	8	9	8	42	38
12	8	10	8	14	7	9	8	42	38
11	8	9	7	13	7	8	7	42	38
10	7	8	7	12	6	7	6	42	38
9	6	7	6	10	5	7	6	42	38
8	6	6	6	9	5	6	5	42	38
7	5	6	5	8	4	6	5	42	38
6	4	5	4	7	3	5	4	42	38
5	4	5	4	7	3	4	3	42	38
4	3	4	3	5	2	3	3	42	38
3	2	3	2	4	1	2	2	42	38
2	1	2	1	2	1	1	1	42	38
1	1	1	0	1	0	0	1	42	38
Number of items	40	40	38	50	38	42	30		

READING COMPREHENSION

GMT 1964 Scale D Form IV Comprehension Part 2	CAT 1970 Level 3 Form A Comprehension Part 2	CTBS 1968 Level 2 Form B Comprehension Part 2	ITBS 1971 Level 10 Form 5 Comprehension Part 2	MAT 1970 Form 10 Form A Comprehension Part 2	SAT 1964 Form 1 Form A Comprehension Part 2	SRA/ACH 1971 Form 1 Form A Comprehension Part 2	STEP II 1969 Form 4 Form 1 Comprehension Part 2	Equivalent raw score	
								Raw score	Number of items
52	42	45	66	45	53	42	30	45	68
51	41	44	64	45	57	46	29	45	68
50	40	43	60	44	55	44	29	45	68
49	39	42	60	43	53	43	29	45	68
48	37	41	59	43	52	42	27	45	68
47	36	41	57	42	51	41	26	45	68
46	35	40	56	42	49	40	26	45	68
45	34	39	54	41	48	39	24	45	68
44	33	38	53	41	46	38	24	45	68
43	33	38	51	40	45	36	23	45	68
42	32	37	50	40	44	35	23	45	68
41	30	36	47	38	41	33	21	45	68
40	30	36	47	38	41	33	21	45	68
39	29	35	46	38	40	32	20	45	68
38	29	34	45	37	39	31	20	45	68
37	28	33	44	36	38	30	19	45	68
36	27	32	42	36	37	29	18	45	68
35	26	31	41	35	36	28	18	45	68
34	25	31	39	34	35	27	17	45	68
33	25	30	38	33	33	26	16	45	68
32	24	29	36	32	32	25	16	45	68
31	24	28	35	31	31	24	15	45	68
30	23	27	34	30	30	23	15	45	68
29	22	26	33	30	29	22	14	45	68
28	22	25	31	29	28	22	14	45	68
27	21	24	30	28	28	21	13	45	68
26	21	24	29	27	27	20	13	45	68
25	20	23	28	26	26	20	12	45	68
24	20	22	27	25	25	20	12	45	68
23	19	21	26	24	24	19	11	45	68
22	19	20	25	23	23	18	11	45	68
21	18	19	23	22	22	18	11	45	68
20	17	18	22	21	21	17	10	45	68
19	17	18	21	20	20	16	10	45	68
18	16	17	20	19	19	16	9	45	68
17	15	16	19	18	18	15	9	45	68
16	14	14	19	16	17	14	8	45	68
15	14	13	18	15	17	13	8	45	68
14	13	13	17	14	16	13	7	45	68
13	12	12	16	13	15	12	7	45	68
12	11	11	15	12	14	11	6	45	68
11	10	10	14	11	13	10	6	45	68
10	10	10	13	10	12	10	5	45	68
9	9	9	13	9	11	9	5	45	68
8	8	8	12	8	10	8	4	45	68
7	7	7	10	7	9	7	4	45	68
6	6	6	9	6	8	6	3	45	68
5	5	5	7	5	7	5	3	45	68
4	4	4	6	4	6	4	2	45	68
3	3	3	5	3	5	3	2	45	68
2	2	2	3	2	4	2	2	45	68
1	1	1	2	1	3	1	1	45	68
Number of items	42	45	68	45	60	48	30		



Table 3 - Grade 4: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

Raw Score	GMT 1964	CAT 1970	CTBS 1968	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
	Raw Score	Raw Score	Raw Score	Raw Score	Raw Score	Raw Score	Raw Score	Raw Score
102	47	47	42	42	46	41	47	17
101	46	46	41	41	45	40	46	17
100	45	45	40	40	44	39	45	16
99	44	44	39	39	43	38	44	16
98	43	43	38	38	42	37	43	15
97	42	42	37	37	41	36	42	15
96	41	41	36	36	40	35	41	14
95	40	40	35	35	39	34	40	14
94	39	39	34	34	38	33	39	13
93	38	38	33	33	37	32	38	13
92	37	37	32	32	36	31	37	12
91	36	36	31	31	35	30	36	12
90	35	35	30	30	34	29	35	11
89	34	34	29	29	33	28	34	11
88	33	33	28	28	32	27	33	10
87	32	32	27	27	31	26	32	10
86	31	31	26	26	30	25	31	9
85	30	30	25	25	29	24	30	9
84	29	29	24	24	28	23	29	8
83	28	28	23	23	27	22	28	8
82	27	27	22	22	26	21	27	7
81	26	26	21	21	25	20	26	7
80	25	25	20	20	24	19	25	6
79	24	24	19	19	23	18	24	6
78	23	23	18	18	22	17	23	5
77	22	22	17	17	21	16	22	5
76	21	21	16	16	20	15	21	4
75	20	20	15	15	19	14	20	4
74	19	19	14	14	18	13	19	3
73	18	18	13	13	17	12	18	3
72	17	17	12	12	16	11	17	2
71	16	16	11	11	15	10	16	2
70	15	15	10	10	14	9	15	1
69	14	14	9	9	13	8	14	1
68	13	13	8	8	12	7	13	0
67	12	12	7	7	11	6	12	0
66	11	11	6	6	10	5	11	0
65	10	10	5	5	9	4	10	0
64	9	9	4	4	8	3	9	0
63	8	8	3	3	7	2	8	0
62	7	7	2	2	6	1	7	0
61	6	6	1	1	5	0	6	0
60	5	5	0	0	4	0	5	0
59	4	4	0	0	3	0	4	0
58	3	3	0	0	2	0	3	0
57	2	2	0	0	1	0	2	0
56	1	1	0	0	0	0	1	0
55	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
Number of tests	102	82	85	106	85	98	80	60



Table 4--Grade 4: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

ITBS 1971	CAT 1970	CTBS 1968	GMT 1964	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	Equivalent raw score	
								Raw score	Number of items
48	40	40	47	50	38	42	39		
47	39	39	46	49	36	41	38		
46	38	38	45	48	34	40	36		
45	37	37	44	47	33	39	35		
44	36	36	43	46	32	38	34		
43	35	35	42	45	31	37	33		
42	34	34	41	44	30	36	32		
41	33	33	40	43	29	35	31		
40	32	32	39	42	28	34	30		
39	31	31	38	41	27	33	29		
38	30	30	37	40	26	32	28		
37	29	29	36	39	25	31	27		
36	28	28	35	38	24	30	26		
35	27	27	34	37	23	29	25		
34	26	26	33	36	22	28	24		
33	25	25	32	35	21	27	23		
32	24	24	31	34	20	26	22		
31	23	23	30	33	19	25	21		
30	22	22	29	32	18	24	20		
29	21	21	28	31	17	23	19		
28	20	20	27	30	16	22	18		
27	19	19	26	29	15	21	17		
26	18	18	25	28	14	20	16		
25	17	17	24	27	13	19	15		
24	16	16	23	26	12	18	14		
23	15	15	22	25	11	17	13		
22	14	14	21	24	10	16	12		
21	13	13	20	23	9	15	11		
20	12	12	19	22	8	14	10		
19	11	11	18	21	7	13	9		
18	10	10	17	20	6	12	8		
17	9	9	16	19	5	11	7		
16	8	8	15	18	4	10	6		
15	7	7	14	17	3	9	5		
14	6	6	13	16	2	8	4		
13	5	5	12	15	1	7	3		
12	4	4	11	14	0	6	2		
11	3	3	10	13	0	5	1		
10	2	2	9	12	0	4	0		
9	1	1	8	11	0	3	0		
8	0	0	7	10	0	2	0		
7	0	0	6	9	0	1	0		
6	0	0	5	8	0	0	0		
5	0	0	4	7	0	0	0		
4	0	0	3	6	0	0	0		
3	0	0	2	5	0	0	0		
2	0	0	1	4	0	0	0		
1	0	0	0	3	0	0	0		
0	0	0	0	2	0	0	0		
0	0	0	0	1	0	0	0		
0	0	0	0	0	0	0	0		
38	40	40	50	50	38	42	30		

READING COMPREHENSION

ITBS 1971	CAT 1970	CTBS 1968	GMT 1964	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	Equivalent raw score	
								Raw score	Number of items
46	41	41	48	51	42	47	44		
45	40	40	47	50	41	46	43		
44	39	39	46	49	40	45	42		
43	38	38	45	48	39	44	41		
42	37	37	44	47	38	43	40		
41	36	36	43	46	37	42	39		
40	35	35	42	45	36	41	38		
39	34	34	41	44	35	40	37		
38	33	33	40	43	34	39	36		
37	32	32	39	42	33	38	35		
36	31	31	38	41	32	37	34		
35	30	30	37	40	31	36	33		
34	29	29	36	39	30	35	32		
33	28	28	35	38	29	34	31		
32	27	27	34	37	28	33	30		
31	26	26	33	36	27	32	29		
30	25	25	32	35	26	31	28		
29	24	24	31	34	25	30	27		
28	23	23	30	33	24	29	26		
27	22	22	29	32	23	28	25		
26	21	21	28	31	22	27	24		
25	20	20	27	30	21	26	23		
24	19	19	26	29	20	25	22		
23	18	18	25	28	19	24	21		
22	17	17	24	27	18	23	20		
21	16	16	23	26	17	22	19		
20	15	15	22	25	16	21	18		
19	14	14	21	24	15	20	17		
18	13	13	20	23	14	19	16		
17	12	12	19	22	13	18	15		
16	11	11	18	21	12	17	14		
15	10	10	17	20	11	16	13		
14	9	9	16	19	10	15	12		
13	8	8	15	18	9	14	11		
12	7	7	14	17	8	13	10		
11	6	6	13	16	7	12	9		
10	5	5	12	15	6	11	8		
9	4	4	11	14	5	10	7		
8	3	3	10	13	4	9	6		
7	2	2	9	12	3	8	5		
6	1	1	8	11	2	7	4		
5	0	0	7	10	1	6	3		
4	0	0	6	9	0	5	2		
3	0	0	5	8	0	4	1		
2	0	0	4	7	0	3	0		
1	0	0	3	6	0	2	0		
0	0	0	2	5	0	1	0		
0	0	0	1	4	0	0	0		
0	0	0	0	3	0	0	0		
0	0	0	0	2	0	0	0		
0	0	0	0	1	0	0	0		
0	0	0	0	0	0	0	0		
38	40	40	50	50	38	42	30		

Table 4--Grade 4: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

ITBS 1971 Level 10 Form J Reading Comprehension	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form JM Comprehension	MAT 1970 Elementary Form F Reading	SAT 1964 Inter 1 Form W Paragraph Meaning	SRA ACH 1971 Basic Lear Form L Reading	STEP II 1969 Level 6 Form A Part 2
Raw score	Equivalent raw scores						
13	9	9	9	10	11	9	5
12	8	8	7	9	10	8	4
11	8	8	7	8	9	8	4
10	7	7	6	7	8	7	3
9	6	6	5	6	7	6	3
8	6	6	4	6	6	5	3
7	5	5	4	5	5	5	2
6	4	4	3	4	4	4	2
5	4	4	3	4	4	4	2
4	3	3	3	3	3	3	1
3	2	2	2	2	2	2	1
2	1	1	2	1	1	2	0
1	1	1	1	1	1	1	0
Number of items	42	45	52	45	60	48	30

Table 4—Grade 4: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

ITBS 1971 Level 10 Form 5	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form U	GMT 1964 Survey D Form 1M	MAT 1970 Elementary Form F	SAT 1964 Inter: I Form W	SRA/ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A	Equivalent raw score	
								Raw score	Equivalent raw score
106	82	85	100	95	98	90	60	51	43
105	82	85	100	95	98	90	60	50	42
104	82	85	100	95	98	90	60	49	41
103	81	84	98	95	97	89	60	48	41
102	81	83	97	95	96	89	59	47	40
101	80	83	96	94	95	88	59	46	40
100	79	82	95	94	93	87	58	45	39
99	79	81	94	94	92	86	57	44	38
98	78	81	93	93	91	85	57	43	37
97	77	80	92	93	89	85	56	42	37
96	76	79	91	92	88	84	55	41	37
95	75	78	90	92	87	83	55	40	36
94	74	78	89	91	86	82	54	39	35
93	74	78	88	91	85	82	54	38	34
92	73	77	87	91	84	81	53	37	34
91	72	76	86	90	82	80	53	36	33
90	71	76	85	90	81	79	52	35	32
89	70	75	84	89	80	78	51	34	31
88	69	74	83	89	79	77	51	33	30
87	68	74	82	88	78	76	50	32	29
86	67	73	81	88	77	75	50	31	28
85	66	72	81	88	76	75	49	30	27
84	65	72	80	87	75	74	49	29	26
83	65	71	79	87	74	73	48	28	25
82	64	70	78	86	73	72	48	27	24
81	63	70	77	86	72	71	47	26	23
80	62	69	76	85	71	70	46	25	22
79	61	69	76	85	70	69	46	24	21
78	61	68	75	85	69	68	45	23	20
77	60	67	74	84	68	67	45	22	19
76	59	67	73	83	67	66	44	21	18
75	58	66	72	83	66	66	43	20	17
74	58	65	71	83	65	64	43	19	16
73	57	65	71	82	64	63	42	18	15
72	56	64	70	81	63	63	42	17	14
71	55	63	69	81	63	61	41	16	13
70	55	63	68	80	62	60	41	15	12
69	54	62	67	80	61	59	40	14	11
68	53	61	67	79	60	58	39	13	10
67	53	60	66	78	59	57	38	12	9
66	52	60	66	78	58	56	38	11	8
65	51	59	64	77	57	56	38	10	7
64	51	58	64	76	57	55	37	9	6
63	50	58	63	76	56	54	37	8	5
62	48	57	62	75	55	53	36	7	4
61	48	56	62	74	54	52	36	6	3
60	48	55	61	74	53	51	35	5	2
59	47	55	60	73	53	50	35	4	1
58	47	54	60	72	52	49	34	3	1
57	46	53	59	72	51	48	34	2	1
56	46	53	59	71	50	48	34	1	1
55	45	52	58	70	50	47	33	1	1
54	44	51	57	70	49	46	33	1	1
53	44	51	56	70	48	45	32	1	1
52	43	50	55	68	47	44	32	1	1
51	43	49	54	68	47	44	32	1	1
50	42	48	53	68	46	43	31	1	1
49	42	48	53	67	45	42	30	1	1
48	41	47	52	65	44	41	29	1	1
47	40	46	51	64	44	40	29	1	1
46	40	45	51	63	43	40	29	1	1
45	39	45	50	62	42	39	29	1	1
44	38	44	49	61	41	38	28	1	1
43	37	43	48	60	41	37	28	1	1
42	37	42	47	59	40	37	27	1	1
41	37	41	47	58	39	36	27	1	1
40	36	40	45	57	38	35	26	1	1
39	35	39	44	55	37	34	26	1	1
38	34	38	43	54	36	34	25	1	1
37	34	37	42	53	36	33	25	1	1
36	33	36	41	51	35	32	24	1	1
35	32	35	40	50	34	31	23	1	1
34	31	34	39	48	33	30	23	1	1
33	30	33	37	46	32	29	22	1	1
32	29	32	36	44	31	28	22	1	1
31	28	30	34	42	30	27	21	1	1
30	27	29	33	40	29	26	20	1	1
29	26	28	31	37	27	25	19	1	1
28	25	27	30	35	26	24	18	1	1
27	24	25	28	33	25	24	17	1	1
26	23	24	27	30	24	23	16	1	1
25	22	23	25	28	23	22	15	1	1
24	21	22	23	25	22	21	14	1	1
23	20	21	21	23	21	20	14	1	1
22	19	19	20	22	20	19	13	1	1
21	18	18	19	22	19	18	13	1	1
20	17	17	17	20	18	17	12	1	1
19	16	16	16	19	17	16	11	1	1
18	15	15	15	18	16	15	10	1	1
17	14	14	14	17	15	14	10	1	1
16	13	13	14	16	14	13	9	1	1
15	12	12	13	15	13	12	9	1	1
14	11	11	12	14	12	11	8	1	1
13	10	10	11	13	11	10	8	1	1
12	9	9	10	12	10	9	7	1	1
11	8	8	9	11	9	8	6	1	1
10	7	7	8	10	8	7	5	1	1
9	6	6	7	9	7	6	4	1	1
8	5	5	6	8	6	5	3	1	1
7	4	4	5	7	5	4	2	1	1
6	3	3	4	6	4	3	1	1	1
5	2	2	3	5	3	2	1	1	1
4	1	1	2	4	2	1	1	1	1
3	1	1	1	3	1	1	1	1	1
2	1	1	1	2	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
106	82	85	102	95	98	90	60	51	43

Table 5--Grade 4: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY										READING COMPREHENSION									
MAT 1970 Elementary Form 4 Word Knowledge	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form O Vocabulary	GMT 1964 Survey D Form M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	SAT 1964 Inter 1 Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1	MAT 1970 Level 3 Form A Reading	CAT 1970 Level 3 Form A Compre- hension	CTBS 1968 Level 2 Form O Compre- hension	GMT 1964 Survey D Form M Compre- hension	ITBS 1971 Level 10 Form 5 Reading Compre- hension	SAT 1964 Inter 1 Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Heading	STEP II 1969 Level 4 Form A Part 2				
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score				
50	39	37	44	37	36	42	29	45	42	45	52	65	58	47	30				
49	37	36	40	36	34	40	28	44	40	44	50	61	55	44	28				
48	35	36	38	34	32	39	26	43	38	42	48	59	52	43	26				
47	33	34	36	32	30	37	25	42	36	40	47	56	50	41	26				
46	31	33	35	30	28	35	24	41	34	39	45	54	47	38	25				
45	29	31	33	29	26	33	23	40	32	38	43	51	45	36	23				
44	27	30	32	27	24	31	22	39	34	36	41	49	43	34	22				
43	26	28	31	25	23	29	21	38	30	35	40	47	41	33	21				
42	25	27	30	24	22	27	20	37	28	34	38	45	39	31	20				
41	23	26	29	23	21	25	20	36	27	33	36	43	37	30	19				
40	22	25	28	22	20	24	19	35	26	32	35	41	36	28	18				
39	22	24	27	20	19	22	18	34	25	31	34	40	35	27	17				
38	21	23	26	19	18	21	18	33	25	30	33	38	33	26	16				
37	20	23	26	19	18	20	17	32	24	29	32	36	32	25	15				
36	19	22	25	18	17	19	17	31	23	28	31	35	31	24	15				
35	19	21	24	17	16	18	16	30	23	27	29	33	30	23	14				
34	18	20	24	16	15	17	15	29	22	26	28	32	29	22	14				
33	17	20	23	16	15	17	15	28	21	25	27	30	28	21	13				
32	17	19	22	15	14	16	15	27	21	24	26	29	27	20	12				
31	16	18	22	15	14	15	15	26	20	23	25	28	26	20	12				
30	16	18	21	14	13	15	14	25	20	22	24	27	25	19	12				
29	15	17	21	14	13	14	14	24	19	21	23	25	24	19	11				
28	15	17	20	13	13	14	13	23	18	20	22	24	23	18	11				
27	14	16	20	13	12	14	13	22	18	19	21	23	22	17	11				
26	14	16	19	13	12	13	13	21	17	18	20	22	21	17	10				
25	14	15	19	12	12	13	12	20	16	17	19	21	20	16	10				
24	13	15	18	12	11	12	12	19	15	16	18	20	19	15	9				
23	13	14	18	12	11	12	12	18	15	16	17	20	19	15	9				
22	12	14	17	11	10	12	11	17	14	15	16	19	18	14	8				
21	12	13	17	11	10	11	11	16	14	14	15	18	17	14	8				
20	11	13	16	11	10	11	11	15	13	13	14	17	16	13	8				
19	11	12	16	10	9	11	10	14	12	13	14	17	15	12	7				
18	11	12	15	10	9	10	10	13	12	12	13	16	15	12	7				
17	10	11	14	9	9	10	9	12	11	11	11	15	14	11	6				
16	10	11	14	9	8	10	9	11	10	10	10	14	13	10	6				
15	9	10	13	9	8	9	8	10	9	9	9	13	12	9	5				
14	8	10	12	8	7	9	8	9	8	8	9	12	10	8	4				
13	8	9	11	8	7	8	7	8	8	8	9	11	9	7	4				
12	7	8	10	7	6	7	7	7	7	7	8	10	8	6	3				
11	7	8	10	6	5	7	6	6	6	6	7	9	7	6	3				
10	6	7	9	6	5	7	5	5	5	5	6	7	5	5	2				
9	5	6	8	5	4	6	5	4	4	4	5	6	4	4	2				
8	5	6	7	5	4	5	4	3	3	3	4	5	3	3	1				
7	4	5	6	4	3	4	4	2	2	2	3	4	2	2	1				
6	4	4	5	3	3	4	3	1	1	1	2	3	2	2	1				
5	3	3	4	3	2	3	3	1	1	1	1	2	1	1	0				
4	2	2	3	2	2	2	2	0	0	0	0	1	0	0	0				
3	2	2	3	2	2	2	2	0	0	0	0	0	0	0	0				
2	1	1	2	1	1	1	1	0	0	0	0	0	0	0	0				
1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0				
Number of items	40	40	50	38	38	42	30	45	42	45	52	68	60	48	30				





Table 6—Grade 4: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

SAT 1964 Inter- Form W Paragraph Meaning	READING COMPREHENSION								
	CAT 1970 Level 3 Form A Compre- hension	CTBS 1968 Level 2 Form U Compre- hension	GMT 1964 Survey D Form TM Compre- hension	ITBS 1971 Level 10 Form 5 Reading Compre- hension	MAT 1970 Elementary Form F Reading	SRA/ACH 1971 Blue Level Form 1 Reading	STEP II 1969 Level 4 Form A Part 2		
Raw score									
5	5	5	4	7	5	5	2		
4	4	4	3	5	4	4	2		
3	3	3	3	4	3	3	1		
2	2	2	2	3	2	2	1		
1	1	1	1	2	1	1	0		
Number of items	42	45	52	68	45	48	30		
60									



Table 6--Grade 4: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SAT 1964				CAT 1970				GMT 1964				ITBS 1971				MAT 1970				SRA-ACH 1971				STEP II 1969			
Inter Form W				Level 3 Form A				Survey 2 Form Q				Level 10 Form B				Elementary Form F				Blue Level Form E				Level 4 Form A			
Raw score				Raw score				Raw score				Raw score				Raw score				Raw score				Raw score			
Raw score				Equivalent raw score				Equivalent raw score				Equivalent raw score				Equivalent raw score				Equivalent raw score				Equivalent raw score			
98	82	85	98	82	85	98	104	95	90	60	43	40	45	51	46	63	40	29									
97	81	84	97	81	84	97	103	95	90	60	42	39	44	50	45	62	39	29									
96	81	84	97	81	84	97	102	95	90	60	41	38	43	49	44	60	38	28									
95	80	83	96	80	83	96	101	95	90	60	40	37	42	47	42	59	37	28									
94	80	83	95	80	83	95	101	94	88	58	39	37	41	46	41	58	36	27									
93	79	82	95	79	82	95	100	94	87	58	38	36	40	45	40	56	35	26									
92	79	82	94	79	82	94	99	94	86	57	37	35	39	44	39	55	34	26									
91	78	81	93	78	81	93	98	93	86	57	36	34	38	43	38	54	33	25									
90	78	81	92	78	81	92	98	93	85	56	35	33	37	42	37	52	32	24									
89	77	80	92	77	80	92	97	93	84	56	34	32	36	40	35	50	31	24									
88	76	79	91	76	79	91	96	92	84	55	33	31	34	39	48	30	23										
87	75	78	90	75	78	90	95	92	83	55	32	30	33	38	47	29	22										
86	74	78	89	74	78	89	94	91	82	54	31	30	32	36	45	28	22										
85	74	78	88	74	78	88	93	91	82	54	30	29	31	35	43	28	21										
84	73	77	87	73	77	87	92	91	81	53	29	28	30	34	41	27	20										
83	72	77	86	72	77	86	92	90	80	53	28	27	28	32	39	26	20										
82	71	76	86	71	76	86	91	90	80	52	27	26	27	31	36	25	19										
81	70	75	85	70	75	85	90	90	79	52	26	24	26	29	34	24	18										
80	70	75	84	70	75	84	89	89	78	51	25	23	25	28	32	23	17										
79	69	74	83	69	74	83	88	88	77	51	24	22	24	26	30	22	17										
78	68	73	82	68	73	82	87	88	76	50	23	21	23	25	25	28	21	16									
77	67	72	81	67	72	81	86	87	75	50	22	20	22	24	27	21	15										
76	66	71	80	66	71	80	85	87	74	49	21	19	21	22	23	20	14										
75	65	70	80	65	70	80	84	87	74	48	20	18	20	20	22	19	14										
74	64	71	79	64	71	79	83	87	73	48	19	18	19	19	22	18	13										
73	64	70	78	64	70	78	82	86	72	47	18	17	18	18	21	17	12										
72	63	70	77	63	70	77	81	86	71	47	17	16	17	17	20	16	11										
71	62	69	76	62	69	76	80	85	70	46	16	15	16	16	20	15	11										
70	61	68	75	61	68	75	79	85	69	45	15	14	16	15	18	14	10										
69	60	68	75	60	68	75	78	84	68	45	14	14	15	14	17	14	10										
68	60	67	74	60	67	74	77	84	67	44	13	13	14	14	16	13	9										
67	59	66	73	59	66	73	76	83	66	44	12	13	14	13	16	13	9										
66	58	66	72	58	66	72	75	83	65	43	11	12	13	13	15	12	8										
65	57	65	71	57	65	71	74	82	64	43	10	12	12	12	14	11	8										
64	57	64	70	57	64	70	73	82	63	42	9	11	11	12	13	10	7										
63	56	64	69	56	64	69	72	81	62	41	8	10	10	11	12	9	7										
62	55	63	68	55	63	68	70	81	61	41	7	9	8	10	11	8	6										
61	54	62	68	54	62	68	69	80	60	40	6	8	7	10	10	7	5										
60	53	61	67	53	61	67	68	79	59	40	5	7	6	9	10	6	5										
59	53	60	66	53	60	66	67	78	57	39	4	7	5	9	9	5	4										
58	52	59	65	52	59	65	66	78	56	38	3	6	4	8	8	4	4										
57	51	59	64	51	59	64	65	77	55	38	2	5	3	7	7	3	3										
56	50	58	63	50	58	63	63	76	54	37	1	4	2	6	6	2	2										
55	49	57	62	49	57	62	62	75	53	36																	
54	49	56	62	49	56	62	61	74	52	36																	
53	48	55	61	48	55	61	60	73	51	35																	
52	47	54	60	47	54	60	58	72	50	35																	
51	46	53	59	46	53	59	57	72	49	34																	
50	45	52	58	45	52	58	56	71	48	34																	
49	45	52	57	45	52	57	54	70	47	33																	
48	44	51	56	44	51	56	53	69	45	32																	
47	43	50	55	43	50	55	52	68	44	32																	
46	42	49	54	42	49	54	50	67	43	31																	
45	41	47	53	41	47	53	49	65	42	31																	
44	41	46	52	41	46	52	48	64	41	30																	
98	82	85	102	85	90	60	106	95	80	60																	



Table 7--Grade 4: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SRA-ACH 1971 Blue Level Form E Vocabulary	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey O Form IM Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SAT 1964 Inter- Form W World Meaning	STEP II 1969 Level 4 Form A Part 1	Equivalent raw score				
								Raw score	Number of items			
42	40	40	46	38	50	37	30	42	40			
41	38	38	42	37	50	35	29	41	38			
40	37	37	40	36	49	34	28	40	37			
39	36	36	39	35	48	32	27	39	36			
38	34	35	38	34	48	31	26	38	34			
37	33	34	37	33	47	30	25	37	33			
36	32	34	36	32	47	29	25	36	32			
35	31	33	35	31	46	28	24	35	31			
34	30	32	34	30	46	27	24	34	30			
33	29	31	33	29	45	26	23	33	29			
32	28	31	33	28	45	25	23	32	28			
31	28	30	32	27	44	25	22	31	28			
30	27	29	32	27	44	24	22	30	27			
29	26	29	31	26	43	23	21	29	26			
28	25	28	30	25	43	23	21	28	25			
27	25	27	30	24	42	22	20	27	25			
26	24	27	29	23	42	21	20	26	24			
25	23	26	29	23	41	21	20	25	23			
24	23	25	28	22	40	20	19	24	23			
23	22	25	28	21	40	19	19	23	22			
22	21	24	27	20	39	19	18	22	21			
21	21	23	26	19	38	18	18	21	21			
20	20	23	26	18	37	17	17	20	20			
19	19	22	25	18	36	17	17	19	19			
18	18	21	24	17	35	16	16	18	18			
17	18	20	23	16	34	15	16	17	17			
16	17	19	22	15	32	14	15	16	16			
15	16	18	21	14	31	14	14	15	15			
14	15	17	20	13	28	13	14	14	14			
13	14	16	19	12	26	12	13	13	13			
12	13	14	18	11	23	11	12	12	12			
11	11	13	16	10	20	10	10	11	11			
10	10	12	14	9	17	9	9	10	10			
9	9	10	13	8	15	8	8	9	9			
8	8	9	11	7	13	7	7	8	8			
7	6	8	10	6	11	5	6	7	7			
6	5	6	8	5	9	4	5	6	6			
5	4	5	6	4	8	3	4	5	5			
4	4	4	5	4	6	3	3	4	4			
3	3	3	4	3	5	2	3	3	3			
2	2	3	3	2	3	1	2	2	2			
1	1	2	2	1	2	1	1	1	1			
Number of items								42	40	50	38	30
42								40	40	50	38	30

READING COMPREHENSION

SRA-ACH 1971 Blue Level Form E Reading	CAT 1970 Level 3 Form A Compre- hension	CTBS 1968 Level 2 Form Q Compre- hension	GMT 1964 Survey O Form IM Compre- hension	ITBS 1971 Level 10 Form 5 Reading Compre- hension	MAT 1970 Elementary Form F Reading Compre- hension	SAT 1964 Inter- Form W Paragraph Meaning	STEP II 1969 Level 4 Form A Part 2	Equivalent raw score						
								Raw score	Number of items					
48	42	45	52	66	45	59	30	48	45					
47	42	45	52	65	45	58	30	47	45					
46	41	44	51	64	45	57	29	46	44					
45	40	43	50	62	44	56	29	45	44					
44	39	43	50	61	44	54	28	44	44					
43	38	42	49	60	43	53	28	43	43					
42	37	41	48	58	43	52	27	42	43					
41	36	41	47	57	42	50	26	41	42					
40	35	40	46	56	42	49	26	40	42					
39	35	39	45	55	41	48	25	39	41					
38	34	39	44	53	41	47	24	38	41					
37	33	38	44	52	40	46	24	37	40					
36	32	37	43	51	40	45	23	36	40					
35	31	37	42	50	39	44	22	35	39					
34	31	36	41	48	39	42	22	34	39					
33	30	35	40	47	38	41	21	33	41					
32	29	35	39	46	38	40	20	32	40					
31	28	34	38	45	37	39	20	31	39					
30	28	33	37	43	36	38	19	30	38					
29	27	32	36	42	36	37	18	29	37					
28	26	32	35	41	35	36	18	28	36					
27	26	31	34	40	34	35	17	27	35					
26	25	30	33	38	33	34	17	26	34					
25	24	29	32	37	33	33	16	25	33					
24	24	28	31	36	31	31	15	24	31					
23	23	27	30	35	30	30	14	23	30					
22	22	26	29	34	29	29	14	22	29					
21	21	25	28	33	28	28	13	21	28					
20	20	24	27	32	27	27	13	20	27					
19	19	23	26	31	26	26	12	19	26					
18	18	22	25	30	25	25	12	18	25					
17	17	21	24	29	24	24	11	17	24					
16	16	20	23	28	23	23	11	16	23					
15	15	19	22	27	22	22	10	15	22					
14	14	18	21	26	21	21	10	14	21					
13	13	17	20	25	20	20	9	13	20					
12	12	16	19	24	19	19	9	12	19					
11	11	15	18	23	18	18	8	11	18					
10	10	14	17	22	17	17	8	10	17					
9	9	13	16	21	16	16	7	9	16					
8	8	12	15	20	15	15	7	8	15					
7	7	11	14	19	14	14	6	7	14					
6	6	10	13	18	13	13	6	6	13					
5	5	9	12	17	12	12	5	5	12					
4	4	8	11	16	11	11	5	4	11					
3	3	7	10	15	10	10	4	3	10					
2	2	6	9	14	9	9	4	2	9					
1	1	5	8	13	8	8	3	1	8					
Number of items								42	45	52	68	45	60	30
48								42	45	52	68	45	60	30

Table 7--Grade 4: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SRA-ACH 1971 Blue Level Form E	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter I Form W	STEP II 1968 Level 4 Form A	Equivalent raw score									
								Raw score	SRA-ACH 1971 Blue Level Form E	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter I Form W	STEP II 1968 Level 4 Form A	
90	82	85	98	104	95	98	60	40	46	51	46	63	43	29			
89	81	84	97	103	95	96	59	39	45	50	45	62	42	29			
88	80	83	96	101	94	95	59	38	44	49	44	61	41	28			
87	79	82	95	100	94	93	58	37	43	48	42	59	40	28			
86	78	81	93	98	93	92	57	36	41	46	41	58	39	27			
85	78	81	92	98	93	90	56	35	40	45	40	56	38	26			
84	77	80	91	96	92	89	56	34	39	44	39	55	37	26			
83	75	79	90	95	92	87	55	33	38	43	37	53	36	25			
82	74	78	88	94	91	86	54	32	37	41	36	52	35	24			
81	73	77	87	92	91	84	53	31	35	40	35	50	34	24			
80	72	76	86	91	90	83	53	30	34	39	34	48	33	23			
79	71	75	85	90	90	81	52	29	33	37	33	46	32	22			
78	70	74	84	89	89	80	51	28	32	36	32	44	31	21			
77	69	73	83	88	88	79	51	27	30	34	31	41	29	21			
76	68	73	82	87	88	78	50	26	29	33	30	39	28	20			
75	67	73	81	86	88	77	50	25	27	31	29	37	27	19			
74	66	72	80	84	87	76	49	24	26	29	28	34	26	18			
73	65	71	79	83	87	74	48	23	25	27	27	32	25	17			
72	64	70	78	82	86	73	48	22	24	26	26	30	24	16			
71	63	70	77	81	86	72	47	21	22	24	25	28	23	15			
70	62	69	76	80	85	71	46	20	21	22	24	26	21	15			
69	61	68	75	79	85	70	46	19	20	21	22	24	20	14			
68	60	68	74	77	84	69	45	18	19	19	21	22	19	13			
67	60	67	74	77	84	68	44	17	18	18	20	21	18	12			
66	59	66	73	76	83	67	44	16	17	17	20	20	17	11			
65	58	66	72	75	83	66	43	15	16	16	19	19	16	11			
64	57	65	71	74	82	65	43	14	15	15	18	17	14	10			
63	57	64	70	73	82	64	42	13	14	14	16	16	13	9			
62	56	64	69	72	81	63	41	12	13	13	15	15	11	9			
61	55	63	69	71	81	62	41	11	12	12	13	14	10	8			
60	54	62	68	70	80	61	40	10	11	12	12	13	9	7			
59	54	62	67	69	79	60	40	9	10	11	11	12	8	7			
58	53	61	66	68	79	60	39	8	9	11	10	11	7	6			
57	52	60	66	67	78	59	38	7	8	10	9	11	6	6			
56	52	59	65	66	77	58	38	6	7	9	7	10	5	5			
55	51	59	64	64	77	57	38	5	5	9	6	9	4	4			
54	50	58	63	63	76	56	37	4	4	8	5	8	3	4			
53	49	57	63	62	75	55	37	3	3	8	4	7	2	3			
52	49	56	62	61	75	54	36	2	2	7	3	6	1	3			
51	48	55	61	60	74	53	35	1	1	7	2	5	1	2			
50	47	55	60	59	73	53	35	Number of items									
49	47	54	60	58	72	52	34	90	82	102	106	95	98	60			
48	46	53	59	56	71	51	34										
47	45	52	58	55	70	50	33										
46	44	51	57	54	70	49	33										
45	44	50	56	53	69	48	32										
44	43	49	55	52	68	47	32										
43	42	48	54	50	66	46	31										
42	42	48	53	49	65	45	31										
41	41	47	52	48	64	44	30										

Table 8—Grade 4: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

STEP II 1969 Level 4 Form A Part 1	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form O Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MA1 1970 Elementary Form F Word Knowledge	SAT 1964 Inter- Form W World Meaning	SRA-ACH 1971 Blue Level Form E Vocabulary	Equivalent raw score					
								Raw score	Equivalent raw score				
30	40	40	47	38	50	38	42						
29	39	39	44	37	50	36	41						
28	38	38	41	36	49	34	40						
27	36	37	39	35	49	33	39						
26	34	35	38	34	48	31	38						
25	33	34	36	32	47	29	36						
24	31	33	35	31	46	28	35						
23	29	31	33	29	45	26	33						
22	27	30	32	27	44	24	31						
21	26	28	31	25	43	23	29						
20	24	27	29	24	42	21	26						
19	23	25	28	22	40	20	24						
18	21	24	27	20	39	19	22						
17	20	22	25	18	37	17	20						
16	18	21	24	17	35	16	18						
15	17	19	22	15	32	14	16						
14	15	18	21	14	30	13	15						
13	14	16	20	13	27	12	13						
12	13	15	18	12	24	11	12						
11	12	14	17	11	21	10	11						
10	11	12	16	10	19	9	11						
9	10	11	14	9	17	8	10						
8	9	10	12	8	15	7	9						
7	8	9	11	7	13	6	8						
6	7	8	10	6	11	5	7						
5	6	6	8	5	9	4	6						
4	4	5	6	4	8	3	5						
3	3	4	5	3	6	2	4						
2	2	3	3	2	4	1	2						
1	1	1	1	0	1	0	0						
Number of items								40	50	38	50	38	42

READING COMPREHENSION

STEP II 1969 Level 4 Form A Part 2	CAT 1970 Level 3 Form A Compre- hension	CTBS 1968 Level 2 Form O Compre- hension	GMT 1964 Survey D Form 1M Compre- hension	ITBS 1971 Level 10 Form 5 Reading Compre- hension	MA1 1970 Elementary Form F Reading	SAT 1964 Inter- Form W Paragraph Meaning	SRA-ACH 1971 Blue Level Form E Reading	Equivalent raw score						
								Raw score	Equivalent raw score					
30	42	45	52	66	45	58	48							
29	41	44	51	63	45	56	46							
28	39	42	49	61	44	54	44							
27	38	41	48	59	43	52	42							
26	36	40	47	56	42	50	41							
25	35	39	45	55	41	48	39							
24	33	38	44	53	41	46	37							
23	32	37	43	51	40	44	36							
22	31	36	41	49	39	43	35							
21	30	35	40	47	38	41	33							
20	29	34	39	46	37	40	32							
19	28	33	37	44	36	38	30							
18	27	32	36	42	35	36	29							
17	26	31	34	40	34	35	27							
16	25	30	33	37	33	33	26							
15	24	28	31	35	31	31	24							
14	22	26	29	33	30	30	23							
13	21	25	27	30	28	28	21							
12	20	23	25	28	26	26	20							
11	19	20	22	25	23	23	18							
10	17	18	20	22	21	21	17							
9	15	16	17	20	18	19	15							
8	14	14	15	18	16	17	14							
7	12	13	13	17	14	15	12							
6	11	11	11	15	12	14	11							
5	9	10	9	13	10	12	10							
4	8	8	7	12	9	10	8							
3	6	7	5	10	7	8	6							
2	5	5	4	6	5	5	4							
1	3	3	2	4	3	4	3							
Number of items								42	45	52	68	45	60	48

Table 8—Grade 4: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

STEP II 1969 Level 4 Form A		CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form O	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form S	MAT 1970 Elementary Form E	SAT 1964 Inter 1 Form W	SRA-ACH 1971 Blue Level Form E
Raw score		Equivalent raw score						
60	82	85	98	104	95	98	90	33
59	80	83	96	102	95	96	89	32
58	79	82	95	100	94	93	87	30
57	78	81	93	99	93	91	86	29
56	77	80	92	97	93	89	85	28
55	76	79	90	95	92	88	83	26
54	74	78	89	94	91	86	82	25
53	72	77	87	92	90	83	81	24
52	71	76	85	90	90	81	79	24
51	69	74	83	88	89	80	77	22
50	68	73	82	87	88	78	76	21
49	66	72	80	85	87	76	74	19
48	65	71	79	83	86	74	73	18
47	63	70	77	81	86	72	71	18
46	62	69	76	80	85	71	70	16
45	61	68	75	78	84	69	68	14
44	59	67	73	76	84	68	67	13
43	58	65	72	74	83	66	65	11
42	57	64	70	73	82	64	63	10
41	55	63	69	71	81	63	61	8
40	54	62	67	69	80	61	60	6
39	53	61	66	67	79	59	58	6
38	52	59	65	66	77	58	56	4
37	50	58	63	64	76	56	54	3
36	49	56	62	61	75	54	52	1
35	48	55	61	59	73	53	50	0
34	46	54	59	57	72	51	49	0
33	45	52	58	56	70	50	47	0
32	44	50	56	53	69	48	45	0
31	42	49	54	50	67	46	43	0
30	41	47	52	48	65	44	41	0
29	39	45	50	46	62	43	39	0
28	38	43	49	44	60	41	38	0
27	37	42	47	41	58	39	36	0
26	35	40	45	39	56	38	35	0
Number of items		82	85	102	106	95	98	90

Table 9—Grade 5: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

Raw score	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter Form F Knowledge	SAT 1964 Inter II Form W Word Meaning	SRA-ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part I
40	40	40	46	42	49	43	42	30
39	39	40	44	40	47	39	42	29
38	38	38	42	39	45	37	41	28
37	37	37	40	38	43	34	40	27
36	36	36	39	36	41	32	39	27
35	35	35	38	35	40	30	38	26
34	34	35	37	34	38	28	37	25
33	33	34	36	33	37	26	36	25
32	32	33	35	32	36	25	35	24
31	31	32	34	30	35	24	34	24
30	30	31	33	29	33	22	33	23
29	29	30	32	27	32	21	32	22
28	28	29	31	26	31	20	31	22
27	27	28	30	25	30	19	29	21
26	26	28	30	23	28	18	28	21
25	25	27	29	22	27	17	26	20
24	24	26	29	20	26	16	25	19
23	23	25	28	19	25	16	24	19
22	22	24	27	18	24	15	22	18
21	21	23	26	17	22	14	21	17
20	20	22	25	16	21	14	19	17
19	19	21	24	15	20	13	18	16
18	18	20	23	14	19	12	17	15
17	17	19	22	13	18	12	16	15
16	16	18	21	13	17	11	15	14
15	15	17	20	12	16	10	14	13
14	14	16	19	11	15	10	13	12
13	13	14	18	11	14	9	12	11
12	12	13	16	10	13	8	11	10
11	11	12	15	9	12	8	10	10
10	10	11	14	8	11	7	9	9
9	9	10	12	7	10	6	8	8
8	8	9	11	7	9	5	7	7
7	7	8	9	6	8	5	6	6
6	6	7	8	5	7	4	5	5
5	5	6	6	4	6	3	4	4
4	4	5	5	3	5	2	3	3
3	3	4	4	2	4	1	2	2
2	2	3	3	1	3	1	1	1
1	1	2	2	0	2	0	0	0
Number of items	40	40	50	43	50	48	42	30

READING COMPREHENSION

Raw score	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 11 Form 5 Comprehension	MAT 1970 Inter Form F Reading	SAT 1964 Inter II Form W Paragraph Meaning	SRA-ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
42	42	45	52	72	45	62	48	30
41	41	44	51	68	43	58	46	29
40	40	43	50	66	40	56	45	28
39	39	42	49	64	41	53	44	28
38	38	41	48	61	40	51	43	27
37	37	41	47	59	38	49	42	26
36	36	40	46	57	37	46	41	25
35	35	39	45	55	36	44	40	25
34	34	38	44	53	35	42	39	24
33	33	37	43	51	34	40	37	23
32	32	37	42	49	33	38	36	22
31	31	36	41	46	31	36	35	21
30	30	35	40	44	30	34	33	20
29	29	34	39	42	28	32	32	19
28	28	33	38	40	27	31	30	18
27	27	32	36	38	26	29	28	17
26	26	30	35	35	25	27	27	16
25	25	29	33	33	23	26	25	15
24	24	28	32	32	22	25	24	14
23	23	26	30	30	21	23	23	14
22	22	25	28	28	20	22	21	13
21	21	23	26	26	18	20	20	12
20	20	22	25	25	17	20	19	11
19	19	20	23	24	16	19	17	11
18	18	19	21	22	15	18	17	10
17	17	17	19	21	14	17	16	10
16	16	16	18	20	13	16	15	9
15	15	15	17	19	13	15	14	8
14	14	14	15	18	12	14	14	8
13	13	13	14	17	11	14	13	7
12	12	12	12	15	10	13	12	7
11	11	11	11	15	10	12	11	6
10	10	10	10	14	9	11	10	6
9	9	9	9	12	8	10	9	5
8	8	8	8	11	7	8	8	4
7	7	7	7	9	6	7	7	4
6	6	6	6	8	5	6	6	3
5	5	5	5	6	4	5	5	3
4	4	4	4	5	3	4	4	2
3	3	3	3	4	2	3	3	1
2	2	2	2	3	1	2	2	1
1	1	1	1	2	1	1	1	0
Number of items	40	40	50	43	50	48	42	30

Number of items  
42 45 52 74 45 64 48 30

Table 9—Grade 5: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

Raw score				Equivalent raw score				Raw score				Equivalent raw score			
CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GM 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter 11 Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter 11 Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
82	85	100	114	94	109	90	60	38	42	47	39	37	32	36	27
81	83	98	111	92	104	89	59	37	41	46	38	35	32	35	26
80	82	96	109	91	100	88	58	36	39	44	36	34	31	34	25
79	81	94	107	89	97	87	57	35	38	43	35	33	30	33	25
78	80	93	105	88	94	86	56	34	36	42	35	32	29	31	24
77	80	91	103	86	91	85	56	33	35	41	34	31	29	30	23
76	79	90	100	85	89	84	55	32	34	40	33	31	28	30	22
75	78	89	98	83	86	83	54	31	33	38	32	30	27	29	22
74	77	88	97	82	84	82	53	30	32	37	31	29	27	28	21
73	77	86	95	80	81	81	53	29	31	36	31	28	26	27	20
72	76	85	93	79	79	80	52	28	29	35	30	27	25	26	20
71	75	84	92	78	77	79	51	27	28	33	29	26	25	25	19
70	74	83	90	76	75	78	50	26	27	32	28	26	24	25	18
69	73	82	89	75	72	77	50	25	26	30	27	25	23	24	18
68	73	81	87	74	70	76	49	24	25	28	26	24	22	23	17
67	72	80	85	72	68	75	48	23	24	27	25	23	21	22	16
66	71	79	83	71	66	73	47	22	23	25	24	22	20	21	16
65	70	78	81	70	64	72	47	21	22	24	23	21	19	20	15
64	70	77	79	68	62	71	46	20	21	22	22	20	18	20	14
63	69	76	78	67	61	70	45	19	20	21	21	19	18	19	14
62	68	75	76	66	59	69	44	18	19	20	20	18	16	18	13
61	67	74	74	65	58	68	44	17	17	18	18	17	15	17	12
60	66	73	73	63	56	66	43	16	16	16	16	16	14	16	12
59	65	72	71	62	55	65	42	15	15	14	14	14	12	14	11
58	64	71	70	61	53	64	41	14	14	13	13	13	11	13	10
57	63	70	68	59	52	62	41	13	12	12	12	12	10	12	9
56	62	69	66	58	50	61	40	12	11	11	11	11	9	11	8
55	61	68	64	57	49	59	39	11	10	10	10	9	8	10	7
54	60	67	62	55	48	58	38	10	8	9	8	8	7	9	7
53	59	66	60	54	47	56	37	9	7	8	7	7	6	8	6
52	58	65	59	53	45	55	37	8	6	7	6	6	5	7	5
51	57	64	57	52	44	54	36	7	5	6	5	5	4	6	4
50	56	62	55	51	43	52	35	6	4	5	4	4	3	5	3
49	55	61	54	49	42	51	35	5	3	5	3	3	3	4	2
48	54	60	52	48	41	49	34	4	1	4	1	2	2	2	2
47	53	59	50	47	40	48	33	3	0	3	0	2	2	1	1
46	52	57	49	46	39	47	32	2	0	2	0	2	1	0	1
45	50	56	47	45	38	45	32	1	0	1	0	1	1	0	1
44	49	54	46	43	37	44	31	1	0	1	0	1	1	0	1
43	48	53	44	42	36	42	30	1	0	1	0	1	1	0	1
42	47	52	43	41	35	41	29	1	0	1	0	1	1	0	1
41	46	51	42	40	35	40	29	1	0	1	0	1	1	0	1
40	44	49	41	39	34	38	28	1	0	1	0	1	1	0	1
39	43	48	40	38	33	37	27	1	0	1	0	1	1	0	1
Number of items															
				82	85	102	117	95	112	90	60				

Table 10—Grade 5: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CTBS 1968	CAT 1970	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA/ACH 1971	STEP II 1969
Level 2 Form G	Level 3 Form A	Survey D Form 1M	Level 11 Form 5	Inter- Form F	Inter- Form W	Blue Level Form E	Level 4 Form A
Vocabulary	Vocabulary	Vocabulary	Vocabulary	Word Knowledge	Meaning	Vocabulary	Part 1
Raw score	Equivalent raw score						
40	40	47	42	49	44	42	30
39	39	44	41	47	40	42	29
38	38	42	39	45	37	41	28
37	37	40	38	43	35	40	28
36	36	39	36	41	32	39	27
35	35	37	35	39	29	38	26
34	33	36	33	38	27	37	25
33	32	35	32	36	25	36	24
32	31	34	30	34	24	34	24
31	30	33	30	33	22	33	23
30	28	32	26	31	20	31	22
29	27	31	25	30	19	29	21
28	26	30	23	28	18	28	21
27	25	29	22	27	17	26	20
26	24	29	20	26	16	25	19
25	23	28	19	25	16	23	19
24	22	27	18	23	15	22	18
23	21	26	17	22	14	20	18
22	20	25	16	21	13	19	17
21	19	24	15	20	13	18	16
20	18	23	14	19	12	17	15
19	17	22	13	18	12	16	15
18	16	21	13	17	11	15	14
17	15	20	12	17	11	14	13
16	14	19	12	16	10	13	13
15	14	18	11	15	10	12	12
14	13	17	10	14	9	12	11
13	12	16	10	13	8	11	10
12	11	15	9	12	8	10	9
11	10	14	8	11	7	9	9
10	9	13	8	11	6	9	8
9	8	11	7	10	6	8	7
8	7	10	6	9	5	7	6
7	6	8	5	7	4	6	6
6	5	7	4	6	3	6	5
5	5	6	4	5	3	5	4
4	4	5	3	4	2	5	4
3	3	3	2	4	1	3	3
2	2	2	1	3	1	2	2
1	1	1	0	2	0	1	0
Number of items							
40	40	50	43	50	48	42	30

READING COMPREHENSION

CTBS 1968	CAT 1970	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA/ACH 1971	STEP II 1969
Level 2 Form G	Level 3 Form A	Survey D Form 1M	Level 11 Form 5	Inter- Form F	Inter- Form W	Blue Level Form E	Level 4 Form A
Compre- hension	Compre- hension	Compre- hension	Reading Compre- hension	Reading	Paragraph Meaning	Reading	Part 2
Raw score	Equivalent raw score						
45	42	52	72	45	63	48	30
44	41	52	69	44	60	47	29
43	40	50	66	42	56	45	29
42	39	49	64	41	53	44	28
41	38	48	61	39	50	43	27
40	36	47	58	38	47	41	26
39	35	46	55	36	44	40	25
38	34	44	53	34	41	38	24
37	33	43	50	33	39	37	22
36	31	42	47	32	36	25	21
35	30	40	44	30	34	33	20
34	29	39	42	29	33	32	19
33	28	38	40	27	31	30	18
32	27	37	38	26	30	29	18
31	27	36	37	25	28	28	17
30	26	35	35	24	27	26	16
29	25	33	33	23	26	25	15
28	24	32	32	22	25	24	15
27	24	31	31	21	24	23	14
26	23	29	29	21	23	22	13
25	22	28	28	20	22	22	13
24	21	27	27	19	22	21	12
23	20	26	26	18	21	20	12
22	20	25	25	18	20	19	11
21	20	24	24	17	20	19	11
20	19	23	23	16	19	18	11
19	18	21	23	15	18	17	10
18	18	20	22	15	18	17	10
17	17	19	21	14	17	16	9
16	16	18	20	13	16	15	9
15	15	16	19	13	15	14	8
14	14	15	18	12	15	13	8
13	13	14	17	11	14	13	7
12	12	12	16	10	13	12	7
11	11	11	14	9	12	11	6
10	10	10	13	9	10	10	5
9	9	8	12	8	9	9	5
8	7	7	10	7	8	8	4
7	6	6	7	6	7	7	4
6	5	5	8	5	6	6	3
5	5	4	6	4	5	5	3
4	4	4	5	4	4	4	2
3	3	3	4	3	3	3	2
2	2	2	3	2	2	2	1
1	1	1	2	1	1	1	0
Number of items							
40	40	50	43	50	48	42	30
Number of items							30
45	42	52	74	45	64	48	30



Table 10—Grade 5: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

CTBS 1968 Level 2 Form A	CAT 1970 Level 2 Form A	GMT 1964 Survey D Form TM	ITBS 1971 Level 11 Form B	MAT 1970 Form A	SAT 1964 Form W	SRA ACH 1971 Basic Level Form A	STEP II 1969 Level 4 Form A	Raw score		Equivalent raw score					
								CTBS 1968 Level 2 Form A	CTBS 1968 Level 2 Form B	MAT 1970 Form A	ITBS 1971 Level 11 Form B	SAT 1964 Form W	SRA ACH 1971 Basic Level Form A	STEP II 1969 Level 4 Form A	
85	82	100	114	94	109	90	60	41	37	46	36	35	26		
84	82	99	112	93	106	89	59	40	37	45	35	34	26		
83	81	97	110	92	103	88	58	39	36	44	34	34	25		
82	80	96	108	90	99	87	58	38	35	43	33	33	25		
81	79	94	106	89	96	86	57	37	34	43	33	32	24		
80	78	92	104	87	93	85	56	36	34	42	32	31	24		
79	76	91	101	85	90	84	55	35	33	41	31	30	23		
78	75	89	98	83	86	83	54	34	32	40	31	30	22		
77	74	87	96	82	83	82	53	33	31	39	30	29	22		
76	72	86	94	80	80	80	52	32	30	38	29	28	21		
75	71	84	92	78	77	79	51	31	29	36	28	27	21		
74	70	83	90	76	75	78	50	30	28	35	28	27	20		
73	69	82	88	75	72	77	49	29	28	34	27	26	19		
72	67	80	86	73	69	75	48	28	27	32	26	24	19		
71	66	79	83	71	66	74	47	27	26	31	25	24	18		
70	65	78	81	69	64	72	46	26	25	30	24	24	18		
69	63	77	78	68	62	71	45	25	24	28	23	23	17		
68	62	75	76	66	59	69	44	24	23	27	23	22	16		
67	61	74	74	64	57	68	44	23	22	25	22	21	16		
66	60	73	72	63	56	66	43	22	21	24	22	21	15		
65	59	72	71	62	54	65	42	21	20	23	21	20	14		
64	58	71	69	60	53	63	41	20	19	21	20	19	14		
63	57	70	67	59	51	62	40	19	18	20	19	18	13		
62	56	69	65	58	50	60	40	18	18	19	18	17	13		
61	55	68	63	56	49	59	39	17	17	18	17	16	12		
60	54	67	62	55	48	57	38	16	16	16	16	15	11		
59	53	66	60	54	46	56	37	15	15	15	14	14	11		
58	52	65	58	53	45	55	37	14	14	14	13	13	10		
57	51	63	57	52	44	53	36	13	14	13	12	13	10		
56	50	62	55	50	43	52	35	12	13	12	11	12	9		
55	49	61	53	49	42	51	35	11	12	11	11	9	8		
54	48	60	52	48	41	50	34	10	11	10	10	8	8		
53	47	59	51	47	40	48	33	9	11	10	9	8	7		
52	46	58	49	46	39	47	33	8	10	9	8	7	6		
51	46	57	48	45	38	46	32	7	9	8	7	6	6		
50	45	55	47	44	38	45	31	6	8	8	6	5	5		
49	44	54	45	43	37	44	31	5	7	7	5	4	5		
48	43	53	44	42	36	42	30	4	7	6	5	4	4		
47	42	52	43	41	36	41	29	3	6	5	4	3	3		
46	41	51	42	40	35	40	29	2	5	4	3	2	3		
45	41	50	41	39	34	39	28	1	4	3	2	3	2		
44	40	49	40	38	34	38	28								
43	39	48	40	38	33	37	27	Number of items							
42	38	47	39	37	33	36	27	85	82	102	117	95	112	90	60

Table 11 - Grade 5: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

GMT 1964 Survey D Form 1M Vocabulary	CAT 1970 Form A Vocabulary	CTBS 1968 Level 2 Form U Vocabulary	ITBS 1971 Level 1 Form S Vocabulary	MAT 1970 Inter Form F Word Knowledge	SAT 1964 Inter II Form W Word Meaning	SRA/ACH 1971 Base Level Form A Vocabulary	STEP II 1969 Level 4 Form A Part 1	Equivalent raw score	
								Raw score	Equivalent raw score
50	40	40	43	50	48	42	30	42	42
49	40	40	43	50	48	42	30	42	42
48	40	40	43	50	47	42	30	42	42
47	40	40	42	49	45	42	30	42	42
46	40	40	42	48	43	42	30	42	42
45	40	39	41	48	41	42	30	42	42
44	39	39	40	47	40	42	29	42	42
43	39	38	40	46	38	41	29	42	42
42	38	38	39	45	37	41	28	42	42
41	38	37	38	44	36	40	28	42	42
40	37	37	37	43	34	40	27	42	42
39	36	36	36	42	32	38	27	42	42
38	35	35	35	40	31	38	26	42	42
37	34	34	34	39	29	38	26	42	42
36	33	34	33	38	27	37	25	42	42
35	32	33	32	36	25	35	24	42	42
34	31	32	30	35	24	34	24	42	42
33	30	31	28	33	22	33	23	42	42
32	29	30	27	31	21	31	22	42	42
31	27	29	25	30	19	30	21	42	42
30	26	28	23	28	18	28	21	42	42
29	25	27	21	26	16	26	20	42	42
28	23	25	20	25	16	24	19	42	42
27	22	24	18	24	15	22	18	42	42
26	21	23	17	22	14	21	17	42	42
25	20	22	15	21	14	19	17	42	42
24	19	21	14	20	13	18	16	42	42
23	18	20	14	19	12	17	15	42	42
22	17	19	13	18	12	16	14	42	42
21	16	18	13	17	11	15	14	42	42
20	15	17	12	16	10	14	13	42	42
19	14	16	11	15	10	13	12	42	42
18	13	15	11	14	9	12	11	42	42
17	13	14	10	13	9	11	11	42	42
16	12	13	10	12	8	11	10	42	42
15	11	12	9	11	8	10	9	42	42
14	10	11	8	10	7	9	8	42	42
13	10	10	7	10	6	8	8	42	42
12	9	9	7	9	6	8	7	42	42
11	8	8	6	8	5	7	6	42	42
10	8	7	6	7	5	6	5	42	42
9	7	6	5	6	4	5	4	42	42
8	6	5	4	5	3	4	3	42	42
7	6	5	4	4	3	3	2	42	42
6	5	4	3	3	2	2	1	42	42
5	4	3	2	2	1	1	0	42	42
4	3	2	1	1	0	0	0	42	42
3	2	1	0	0	0	0	0	42	42
2	1	0	0	0	0	0	0	42	42
1	0	0	0	0	0	0	0	42	42
Number of items	40	40	43	50	48	42	30		

READING COMPREHENSION

GMT 1964 Survey D Form 1M Comprehension	CAT 1970 Form A Comprehension	CTBS 1968 Level 2 Form U Comprehension	ITBS 1971 Level 1 Form S Comprehension	MAT 1970 Inter Form F Reading	SAT 1964 Inter II Form W Paragraph Meaning	SRA/ACH 1971 Base Level Form A Reading	STEP II 1969 Level 4 Form A Part 2	Equivalent raw score	
								Raw score	Equivalent raw score
52	42	45	72	45	62	48	30	45	45
51	41	44	68	43	58	46	29	45	45
50	40	43	66	42	55	45	27	45	45
49	39	42	63	40	53	44	27	45	45
48	38	41	61	39	50	43	27	45	45
47	37	40	59	38	48	42	26	45	45
46	36	39	56	37	45	40	25	45	45
45	35	38	54	36	43	39	24	45	45
44	34	38	52	34	41	38	23	45	45
43	33	37	50	33	39	36	22	45	45
42	32	36	48	32	37	35	22	45	45
41	31	36	46	31	35	34	21	45	45
40	30	35	44	30	34	33	20	45	45
39	29	34	42	28	32	32	19	45	45
38	28	33	40	27	31	30	18	45	45
37	28	32	38	26	30	29	18	45	45
36	27	31	37	25	28	28	17	45	45
35	26	30	36	25	27	27	16	45	45
34	26	30	34	24	27	26	16	45	45
33	25	29	33	23	26	25	15	45	45
32	24	28	32	22	25	24	15	45	45
31	24	27	31	22	24	24	14	45	45
30	23	27	30	21	23	23	14	45	45
29	23	26	29	20	23	22	13	45	45
28	22	25	28	20	22	22	13	45	45
27	22	24	27	19	22	21	12	45	45
26	21	23	26	18	21	20	12	45	45
25	20	22	25	18	20	19	12	45	45
24	20	21	24	17	20	18	11	45	45
23	19	20	24	17	19	18	11	45	45
22	19	20	23	16	19	18	11	45	45
21	18	19	22	15	18	17	10	45	45
20	17	18	22	15	18	16	10	45	45
19	17	18	22	15	18	16	10	45	45
18	17	18	22	15	18	16	10	45	45
17	16	16	19	13	16	15	9	45	45
16	15	15	19	12	15	14	8	45	45
15	15	14	18	12	15	14	8	45	45
14	14	14	17	12	14	13	8	45	45
13	13	13	17	11	14	13	7	45	45
12	13	13	16	11	13	12	7	45	45
11	12	12	16	10	13	12	7	45	45
10	11	11	15	10	12	11	6	45	45
9	10	10	14	9	11	10	6	45	45
8	10	10	13	9	10	9	5	45	45
7	9	9	11	8	9	8	5	45	45
6	8	8	9	7	8	7	4	45	45
5	7	7	10	6	7	6	4	45	45
4	6	6	8	5	6	5	3	45	45
3	5	5	7	4	5	4	3	45	45
2	4	4	8	3	4	3	2	45	45
1	3	3	9	2	3	2	1	45	45
Number of items	42	45	74	45	64	48	30		

Table 11—Grade 5: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

GMT 1964 Survey D Form 1M	Raw score	Equivalent raw score							Number of items
		CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form U	ITBS 1971 Level 11 Form 5	MAT 1970 Inter- Form F	SAT 1964 Inter-11 Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A	
102	82	85	85	116	95	112	90	60	82
101	82	85	115	111	95	111	90	60	85
100	82	85	114	109	94	109	90	60	88
99	82	84	113	107	83	107	89	59	91
98	81	84	111	92	105	105	89	59	93
97	81	83	110	92	102	102	88	59	95
96	80	82	109	91	100	100	88	58	97
95	80	82	108	90	98	98	87	58	99
94	79	81	106	89	96	96	87	57	101
93	78	81	105	88	94	94	86	56	103
92	78	80	104	87	92	92	85	56	105
91	77	79	102	86	90	90	84	55	107
90	76	79	100	85	88	88	84	55	109
89	75	78	99	83	86	86	83	54	111
88	74	78	97	82	84	84	82	54	113
87	74	77	96	81	83	83	81	53	115
86	73	76	95	80	81	81	81	53	117
85	72	76	93	79	79	79	80	52	119
84	71	75	92	78	77	77	79	51	121
83	70	74	90	76	75	75	78	50	123
82	69	73	89	75	73	73	77	50	125
81	68	72	87	74	71	71	76	49	127
80	67	72	85	73	69	69	75	48	129
79	66	71	84	71	67	67	74	48	131
78	65	70	82	70	65	65	72	47	133
77	64	69	80	68	63	63	71	46	135
76	63	69	78	67	61	61	70	45	137
75	62	68	76	66	59	59	69	44	139
74	61	67	74	64	57	57	67	44	141
73	60	66	73	63	56	56	66	43	143
72	59	65	71	62	54	54	65	42	145
71	58	64	69	61	53	53	64	41	147
70	57	63	68	59	52	52	62	41	149
69	56	62	66	58	50	50	61	40	151
68	55	61	64	57	49	49	59	39	153
67	54	60	62	55	48	48	58	38	155
66	53	59	61	54	47	47	57	38	157
65	52	58	59	53	46	46	55	37	159
64	51	58	58	52	45	45	54	36	161
63	51	57	56	51	44	44	53	36	163
62	50	56	55	50	43	43	52	35	165
61	49	55	53	49	42	42	51	34	167
60	48	54	52	48	41	41	49	34	169
59	47	53	51	47	40	40	48	33	171
58	47	52	49	46	40	40	47	33	173
57	46	51	48	46	39	39	46	32	175
56	45	51	47	45	38	38	45	32	177
55	44	50	46	44	38	38	44	31	179
54	44	49	45	43	37	37	43	31	181
53	43	48	44	42	36	36	42	30	183
52	42	47	43	41	36	36	41	30	185
51	41	46	42	40	35	35	40	29	187



Table 12—Grade 5: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

ITBS 1971 Level 11 Form 5 Reading Compre- hension	CAT 1970 Level 3 Form A Compre- hension	CTBS 1968 Level 2 Form O Compre- hension	GMT 1964 Survey D Form IM Compre- hension	MAT 1970 Inter F Form F Reading	SAT 1971 Inter 11 Form W Paragraph Meaning	SRA-ACH 1971 Bird Level Form F Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
19	15	15	17	13	16	14	8
18	14	14	15	12	15	14	8
17	13	13	14	11	14	13	7
16	12	12	13	11	13	12	7
15	11	12	11	10	12	11	6
14	10	11	10	9	11	10	6
13	10	10	9	8	10	10	5
12	9	9	9	8	10	9	5
11	8	9	8	7	9	8	5
10	8	8	7	7	8	8	4
9	7	8	7	6	7	7	4
8	6	7	6	6	6	7	4
7	6	6	5	5	6	6	3
6	5	5	5	4	5	6	3
5	4	4	4	3	4	5	2
4	3	4	3	3	4	4	2
3	2	3	3	2	3	4	1
2	2	2	2	1	2	3	1
1	1	1	1	0	2	3	0
Number of items	42	45	52	45	64	48	30
74							

Table 12--Grade 5: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

ITBS 1971 Level 11 Form B	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form A	GMT 1964 Survey D Form 1M	MAT 1970 Form F	SAT 1964 Form W	SRA/ACH 1971 Basic Level Form E	STEP II 1969 Level 4 Form A	Equivalent raw score							
								Raw score	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form A	GMT 1964 Survey D Form 1M	MAT 1970 Form F	SAT 1964 Form W	SRA/ACH 1971 Basic Level Form E	STEP II 1969 Level 4 Form A
117	82	85	102	95	112	90	60	62	54	60	67	55	48	58	38
116	82	85	102	95	112	90	60	61	54	60	66	55	47	57	38
115	82	85	101	95	111	90	60	60	53	59	66	54	46	56	37
114	82	85	100	94	109	90	60	59	52	59	65	53	46	55	37
113	82	84	99	94	108	90	60	58	52	58	64	53	45	55	37
112	81	84	99	93	106	89	59	57	51	57	64	52	44	54	36
111	81	83	98	92	104	89	59	56	51	56	63	51	44	53	36
110	81	83	97	92	103	88	59	55	50	56	62	51	43	52	35
109	80	82	96	91	101	88	58	54	49	55	62	50	42	51	35
108	80	82	95	90	99	87	58	53	49	55	61	49	42	50	34
107	79	81	95	89	97	87	57	52	48	54	60	48	41	50	34
106	79	81	94	89	96	86	57	51	48	53	59	48	41	49	33
105	78	81	93	88	94	86	56	50	47	53	59	47	40	48	33
104	78	80	92	87	93	85	56	49	46	52	58	46	39	47	33
103	77	80	92	86	92	85	56	48	46	51	57	45	39	46	32
102	77	79	91	86	91	84	55	47	45	50	56	44	38	45	32
101	76	79	91	85	89	84	55	46	44	50	55	44	37	44	31
100	76	79	90	85	88	84	55	45	44	49	54	43	37	43	31
99	76	78	89	84	87	83	54	44	44	48	53	42	36	42	30
98	75	78	89	83	86	83	54	43	42	47	52	41	35	41	29
97	74	77	88	82	84	82	53	42	41	46	51	40	35	40	29
96	74	77	87	81	83	82	53	41	40	45	50	39	34	40	29
95	73	77	86	81	82	81	53	40	39	44	49	38	34	38	28
94	73	76	86	80	80	80	52	39	38	42	48	37	33	37	27
93	72	76	85	79	79	80	52	38	37	41	46	36	32	35	26
92	71	75	84	78	78	79	51	37	37	40	45	35	31	34	26
91	71	74	84	77	76	79	51	36	36	38	44	34	31	34	25
90	70	74	83	76	75	78	50	35	35	37	43	33	30	32	24
89	69	74	82	75	73	77	50	34	33	36	41	32	29	31	23
88	69	73	82	75	72	77	49	33	32	34	40	31	28	30	23
87	68	73	81	74	71	76	49	32	31	33	38	30	27	29	22
86	68	72	81	73	69	75	48	31	30	31	37	28	26	27	21
85	67	72	80	75	68	75	48	30	28	30	35	27	25	26	20
84	67	71	79	72	67	74	48	29	27	28	33	26	24	25	19
83	66	71	79	71	66	74	47	28	26	27	31	25	23	24	18
82	66	71	78	70	65	73	47	27	25	26	29	24	23	23	17
81	65	70	78	69	64	72	47	26	24	25	28	24	22	22	17
80	64	70	77	69	63	72	46	25	23	24	26	23	21	21	16
79	64	69	77	68	62	71	46	24	22	22	25	22	20	21	15
78	63	69	76	67	61	70	45	23	21	21	23	21	19	20	15
77	63	68	76	67	60	70	45	22	20	21	22	20	18	19	14
76	62	68	75	66	59	69	44	21	19	20	21	19	18	19	14
75	62	68	75	65	58	68	44	20	18	19	20	19	17	18	13
74	61	67	74	64	57	68	44	19	18	18	19	18	16	17	13
73	60	66	73	64	56	67	43	18	17	18	18	17	15	17	12
72	60	66	73	63	55	66	43	17	17	17	17	16	15	16	12
71	59	65	72	62	55	65	42	16	16	16	16	15	14	16	12
70	58	65	72	61	54	64	42	15	16	16	15	15	13	15	11
69	58	64	71	60	53	63	41	14	15	15	14	14	12	14	11
68	57	64	70	60	52	63	41	13	14	14	13	13	12	13	10
67	57	63	70	59	51	62	40	12	13	13	12	12	11	12	9
66	56	63	69	58	51	61	40	11	12	12	12	11	10	11	9
65	56	62	69	57	50	60	40	10	11	10	11	10	9	10	8
64	56	61	68	57	49	59	39	9	11	9	10	9	8	9	8
63	55	61	68	56	49	59	39	8	10	8	9	8	7	9	6

Table 12--Grade 5: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING										
ITBS 1971 Level 11 Form 5	CAT 1970 Level 3 Form 4	CTBS 1968 Level 2 Form U	GMT 1964 Survey D Form TM	MAT 1970 Inter Form F	SAT 1964 Inter. II Form W	SRA/ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A			
Raw score								Equivalent raw score		
7	9	7	8	7	6	8	6			
6	8	6	7	5	5	7	5			
5	7	5	7	5	4	6	4			
4	6	3	6	4	3	5	3			
3	5	2	5	3	3	4	3			
2	5	1	4	3	2	3	2			
1	4	1	3	3	2	2	2			
Number of items	117	85	102	95	112	90	60			

Table 13--Grade 5: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

MAT 1970	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	SAT 1964	SRA ACH 1971	STEP II 1969
Inter. Form 1 Word Meaning	Level 1 Form 1 Vocabulary	Level 2 Form 2 Vocabulary	Survey D Form D Vocabulary	Level 11 Form 5 Vocabulary	Inter II Form W Word Meaning	Blue Level Form I Vocabulary	Level 4 Form A Part I
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score
50	40	40	48	43	47	42	30
49	40	40	46	42	44	42	30
48	40	39	45	41	41	42	30
47	39	39	44	40	40	42	29
46	39	38	43	40	38	41	29
45	38	38	42	39	37	41	28
44	38	37	41	38	36	40	28
43	37	37	40	37	34	40	27
42	37	37	39	37	33	39	27
41	36	36	39	36	32	39	26
40	35	35	38	35	30	38	26
39	35	35	37	34	29	38	26
38	34	34	36	33	28	37	25
37	33	34	36	33	26	36	25
36	32	33	35	32	25	36	24
35	31	32	34	31	24	35	24
34	31	32	34	30	23	34	23
33	30	31	33	29	22	33	23
32	29	31	32	27	21	32	22
31	28	30	32	26	20	31	22
30	27	29	31	25	20	30	21
29	27	28	31	24	19	29	21
28	26	28	30	23	18	28	20
27	25	27	29	22	17	27	20
26	24	26	28	21	16	26	19
25	23	25	28	20	15	25	19
24	22	24	27	18	14	24	18
23	22	24	27	17	13	23	18
22	21	23	26	16	12	22	17
21	20	22	25	16	11	21	17
20	19	21	24	15	10	20	16
19	18	20	23	14	9	19	15
18	17	19	22	13	8	18	14
17	16	18	21	12	7	17	14
16	15	16	20	11	6	16	13
15	14	15	19	10	5	15	12
14	13	14	17	10	4	14	11
13	12	13	16	10	3	13	10
12	11	12	15	9	2	12	9
11	10	11	14	8	1	11	8
10	9	10	13	7	0	10	7
9	8	9	12	6	0	9	6
8	7	8	11	5	0	8	5
7	6	7	10	4	0	7	4
6	5	6	9	3	0	6	3
5	4	5	8	2	0	5	2
4	3	4	7	1	0	4	1
3	2	3	6	1	0	3	1
2	1	2	5	0	0	2	0
1	0	1	4	0	0	1	0
Number of items	40	40	50	43	48	42	30

READING COMPREHENSION

MAT 1970	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	SAT 1964	SRA ACH 1971	STEP II 1969
Inter. Form 1 Reading	Level 3 Form 3 Comprehension	Level 2 Form 2 Comprehension	Survey D Form D Comprehension	Level 11 Form 5 Comprehension	Inter II Form W Paragraph Meaning	Blue Level Form I Reading	Level 4 Form A Part 2
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score
45	42	45	52	72	63	48	30
44	42	44	52	70	61	47	30
43	41	44	51	68	58	46	29
42	40	43	50	66	56	45	29
41	39	42	50	64	54	44	28
40	38	42	49	63	52	44	27
39	38	41	48	60	50	43	27
38	37	40	47	58	48	41	26
37	36	40	46	57	46	40	25
36	35	39	45	55	44	39	24
35	34	38	45	53	42	38	24
34	33	38	44	51	40	37	24
33	32	37	43	50	39	36	22
32	32	36	42	48	37	35	22
31	31	36	41	46	36	34	21
30	30	35	40	44	34	33	20
29	30	34	40	43	33	32	20
28	29	34	39	41	32	31	19
27	28	33	38	40	31	30	18
26	27	32	37	38	29	29	17
25	26	31	36	36	28	27	17
24	26	30	34	35	27	26	16
23	25	29	33	33	26	25	15
22	24	28	32	32	25	24	14
21	23	27	30	30	24	23	14
20	22	25	29	29	23	22	13
19	21	24	27	27	22	21	12
18	20	23	26	26	21	20	11
17	20	22	25	24	20	19	11
16	19	21	24	23	19	18	11
15	18	20	23	22	18	17	10
14	17	19	22	21	17	16	9
13	16	18	21	20	16	15	9
12	15	17	20	19	15	14	8
11	14	16	19	18	14	13	7
10	13	15	18	17	13	12	7
9	12	14	17	16	12	11	6
8	11	13	16	15	11	10	6
7	10	12	15	14	10	9	5
6	9	11	14	13	9	8	4
5	8	10	13	12	8	7	4
4	7	9	12	11	7	6	3
3	6	8	11	10	6	5	3
2	5	7	10	9	5	4	2
1	4	6	9	8	4	3	1
Number of items	42	45	52	74	64	48	30



Table 13-Grade 5: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

MAT 1970 Inter- Form F	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form G	GMT 1964 Survey D Form JM	ITBS 1971 Level 11 Form 5	SAT 1964 Inter-11 Form W	SRAACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A	Equivalent raw score										
								Raw score	MAT 1970 Inter- Form F	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form G	GMT 1964 Survey D Form JM	ITBS 1971 Level 11 Form 5	SAT 1964 Inter-11 Form W	SRAACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A		
95	82	85	101	115	111	90	60	40	41	46	51	42	35	40	40	41	46	29
94	82	85	100	114	109	90	60	39	40	45	50	41	34	39	40	41	46	28
93	81	84	99	112	106	89	60	38	39	44	49	40	33	38	39	44	46	28
92	81	83	98	111	104	89	59	37	37	42	48	39	33	37	38	42	46	26
91	80	82	96	109	101	88	58	36	38	41	46	38	32	36	38	41	46	26
90	80	82	95	108	99	87	58	35	37	40	45	37	31	35	37	40	46	26
89	79	81	94	107	97	87	57	34	36	39	44	36	31	34	36	39	44	26
88	78	81	93	105	95	86	57	33	35	37	43	35	30	33	37	43	44	24
87	78	80	92	104	93	85	56	32	34	36	42	34	29	31	34	36	42	24
86	77	80	91	102	91	85	55	31	33	35	40	33	28	31	34	36	40	23
85	76	79	90	101	89	84	55	30	31	33	39	32	28	30	32	39	40	22
84	76	78	89	99	87	83	54	29	29	32	37	32	27	28	30	37	39	21
83	75	78	88	98	86	83	54	28	28	31	36	31	26	27	29	31	36	20
82	74	77	88	97	84	82	53	27	27	29	34	30	25	26	28	30	34	20
81	74	77	87	96	82	81	53	26	27	28	32	29	24	25	27	29	32	19
80	73	76	86	94	81	81	52	25	25	27	30	28	23	24	27	29	30	18
79	72	76	85	93	79	80	52	24	24	25	29	27	22	23	24	27	29	17
78	71	75	84	92	78	79	51	23	23	24	27	25	21	21	22	24	27	16
77	71	75	84	91	76	78	51	22	22	24	25	24	20	20	21	22	24	16
76	70	74	83	90	74	78	50	21	21	22	25	23	19	19	20	21	23	15
75	69	73	82	89	72	77	50	20	20	20	22	22	18	18	19	21	22	14
74	68	73	81	87	71	76	49	19	19	19	21	21	17	17	18	21	21	13
73	68	72	80	86	69	75	48	18	18	18	19	19	16	16	18	19	18	13
72	67	72	80	84	68	72	48	17	17	17	18	18	15	15	17	18	17	12
71	66	71	79	83	66	74	47	16	16	17	17	17	14	14	17	17	16	12
70	65	70	78	82	65	73	47	15	15	16	16	16	13	13	16	16	15	11
69	65	70	78	81	64	72	46	14	14	15	15	15	12	12	14	14	14	11
68	64	69	77	79	62	71	46	13	13	14	14	14	11	11	13	13	13	10
67	63	69	76	78	61	70	45	12	12	13	13	13	10	10	12	12	12	9
66	62	68	75	76	60	69	45	11	11	12	12	12	9	9	11	11	11	9
65	61	67	75	75	58	68	44	10	11	10	11	10	9	9	10	10	10	8
64	61	67	74	74	57	67	43	9	11	9	10	9	8	8	9	9	9	7
63	60	66	73	72	56	66	43	8	10	8	9	8	7	7	8	8	8	7
62	59	65	72	71	55	65	42	7	9	7	8	7	6	6	7	7	7	6
61	58	65	71	70	53	64	42	6	8	6	7	6	5	5	6	6	6	5
60	58	64	71	69	52	63	41	5	7	5	6	5	4	4	5	5	5	4
59	57	63	70	67	51	62	40	4	6	4	5	4	3	3	4	4	4	3
58	56	62	69	66	50	61	40	3	5	3	4	3	2	2	3	3	3	2
57	55	62	68	65	49	60	39	2	4	2	3	2	1	1	2	2	2	1
56	55	61	68	63	49	59	39	1	4	2	3	2	1	1	2	2	2	1
55	54	60	67	62	47	58	38	Number of items	82	85	102	117	112	90	60	60	60	60
54	53	59	66	60	46	56	37	95	82	85	102	117	112	90	60	60	60	60
53	52	58	65	59	45	55	37											
52	51	57	64	57	45	54	36											
51	50	57	63	56	44	53	36											
50	50	56	62	54	43	51	35											
49	49	55	61	53	42	50	34											
48	48	54	60	52	41	49	34											
47	47	53	59	50	40	48	33											
46	46	52	58	49	39	47	32											
45	45	51	56	48	38	46	32											
44	44	50	55	47	38	45	31											
43	44	49	54	45	37	44	31											
42	43	48	53	44	36	42	30											
41	42	47	52	43	36	41	29											

Table 14—Grade 5: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SAT 1964	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SRA-ACH 1971	STEP II 1969
Inter. II Form W Word Meaning	Level 3 Form A Vocabulary	Level 2 Form U Vocabulary	Survey D Form IM Vocabulary	Level 11 Form 5 Vocabulary	Inter. Form F Word Knowledge	Blue Level Form F Vocabulary	Level 4 Form A Part I
Raw score	Equivalent raw score						
48	40	40	49	43	50	42	30
47	40	40	48	43	50	42	30
46	40	40	48	43	50	42	30
45	40	40	47	42	50	42	30
44	40	40	47	42	49	42	30
43	40	40	46	42	49	42	30
42	40	40	46	41	48	42	30
41	40	39	45	41	48	42	30
40	39	39	44	41	47	42	29
39	39	39	44	40	47	41	29
38	39	38	43	39	46	41	29
37	38	38	42	39	45	41	28
36	38	38	41	38	44	40	28
35	37	37	41	38	44	40	28
34	37	37	40	37	43	40	27
33	37	37	39	37	42	39	27
32	36	36	39	36	41	39	27
31	36	36	38	36	41	39	26
30	35	35	38	35	40	38	26
29	35	35	37	34	39	38	26
28	34	35	37	34	38	37	25
27	33	34	36	33	38	37	25
26	33	34	36	32	37	36	25
25	33	34	35	31	36	35	24
24	31	32	34	31	35	35	24
23	31	32	34	30	34	34	23
22	30	32	33	28	33	33	23
21	29	31	32	27	32	32	22
20	28	30	32	26	31	30	22
19	27	29	31	24	29	29	21
18	26	28	30	23	28	28	21
17	25	27	29	22	27	26	20
16	24	26	28	20	25	24	20
15	22	24	27	18	24	22	18
14	21	23	26	17	22	20	17
13	19	21	24	15	21	18	16
12	18	20	23	14	19	16	15
11	16	18	21	13	17	15	14
10	14	16	19	12	16	13	12
9	13	14	18	10	14	12	11
8	12	13	16	9	13	11	10
7	10	11	14	8	12	9	9
6	9	10	12	7	10	8	8
5	8	8	10	6	9	7	6
4	6	7	8	5	7	6	5
3	5	6	6	4	6	5	4
2	4	4	5	3	4	4	3
1	2	2	3	1	3	2	2
Number of items	40	40	50	43	50	42	30
48							

READING COMPREHENSION

SAT 1964	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SRA-ACH 1971	STEP I 1969
Inter. II Form W Paragraph Meaning	Level 3 Form A Comprehension	Level 2 Form U Comprehension	Survey D Form IM Comprehension	Level 11 Form 5 Comprehension	Inter. Form F Reading	Blue Level Form F Reading	Level 4 Form A Part 2
Raw score	Equivalent raw score						
64	42	45	52	73	45	48	30
63	42	45	52	72	45	48	30
62	42	45	52	71	45	48	30
61	42	44	52	70	44	47	30
60	42	44	52	70	44	47	30
59	41	44	51	69	43	47	29
58	41	44	51	68	43	46	29
57	41	43	51	67	42	46	29
56	40	43	50	66	42	45	29
55	40	43	50	65	42	45	28
54	39	42	50	64	41	44	28
53	39	42	49	63	40	44	27
52	38	42	48	62	40	44	27
51	38	41	48	62	40	43	27
50	38	41	48	61	39	43	27
49	37	41	48	60	39	42	26
48	37	40	47	59	38	42	26
47	36	40	47	58	38	41	25
46	36	40	46	57	37	41	25
45	36	39	46	56	37	40	25
44	35	39	45	55	36	40	25
43	35	38	45	54	36	39	24
42	34	38	45	53	35	39	24
41	34	38	44	52	34	38	23
40	33	38	44	51	34	37	23
39	33	37	43	50	33	37	23
38	32	37	43	49	33	36	22
37	32	36	42	48	32	35	22
36	31	36	42	47	31	35	21
35	31	35	41	45	31	34	21
34	30	35	40	44	30	33	20
33	30	34	40	43	29	32	20
32	29	34	39	42	28	31	19
31	28	33	38	40	27	30	18
30	28	32	37	39	27	29	18
29	27	32	36	38	26	28	17
28	26	31	35	36	25	27	16
27	26	30	34	35	24	26	16
26	25	29	33	34	23	25	15
25	24	28	32	32	22	24	15
24	24	27	31	31	21	23	14
23	23	26	29	29	20	22	13
22	22	25	28	28	19	21	13
21	21	23	26	26	18	20	12
20	20	22	25	25	17	19	11
19	19	20	23	24	16	18	11
18	18	19	21	22	15	17	10
17	17	17	19	21	14	16	9
16	16	16	18	20	13	15	9
15	15	15	16	18	12	14	8
14	14	13	14	17	11	13	7
13	13	12	13	16	10	12	7
12	12	12	13	16	10	12	6
11	11	11	11	15	9	11	6
10	10	10	10	14	8	10	5
9	9	9	9	13	7	9	5
8	8	8	8	12	6	8	4
7	7	7	7	11	5	7	4
6	6	6	6	10	4	6	3
5	5	5	5	9	3	5	3
4	4	4	4	8	2	4	2
3	3	3	3	7	1	3	2
2	2	2	2	6	1	2	1
1	1	1	1	5	1	1	1
Number of items	40	40	50	43	50	42	30
48							

Table 14—Grade 5: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

SAT 1964 Inter. II Form W Paragraph Meaning	CAT 1970 Level J Form A Compre hension	CTBS 1968 Level 2 Form Q Compre hension	GMT 1964 Survey D Form TM Compre hension	ITBS 1971 Level 11 Form S Reading Compre hension	MAT 1970 Inter. Form F Reading	SRA/ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
9	9	9	8	11	7	9	5
8	8	8	7	10	7	8	4
7	7	7	7	9	6	7	4
6	6	7	6	8	5	6	3
5	5	5	5	6	4	6	2
4	4	4	4	5	3	5	2
3	2	3	3	2	2	4	1
2	1	1	2	2	1	3	0
1	1	1	1	0	0	2	0
Number of items	42	45	52	74	45	48	30
64							

Table 14—Grade 5: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SAT 1964 Form W Level 11 Form W	CAT 1970 Form A Level 1 Form A	CTBS 1968 Level 2 Form 2	GMT 1964 Form 1M Form 1M	ITBS 1971 Level 11 Form 11	MAT 1970 Form 1 Form 1	SRA ACH 1971 Blue Level Form 1	STEP II 1969 Level 4 Form 4	Raw score	Equivalent raw score														
									SAT 1964 Form W Level 11 Form W	CAT 1970 Form A Level 1 Form A	CTBS 1968 Level 2 Form 2	GMT 1964 Form 1M Form 1M	ITBS 1971 Level 11 Form 11	MAT 1970 Form 1 Form 1	SRA ACH 1971 Blue Level Form 1	STEP II 1969 Level 4 Form 4							
112	82	85	102	116	95	90	60	54	59	65	72	70	62	64	61	63	62	42					
111	82	85	101	115	95	90	60	53	58	64	71	69	61	64	61	63	62	41					
110	82	85	101	114	95	90	60	52	57	64	70	68	60	62	60	62	61	41					
109	82	85	100	114	94	90	60	51	57	63	70	67	59	61	59	61	60	40					
108	82	85	100	113	94	90	60	50	56	62	69	65	58	60	58	60	60	40					
107	82	84	99	113	93	90	60	49	55	61	68	64	57	59	57	59	59	39					
106	81	84	99	112	93	88	59	48	54	60	67	62	56	58	56	58	58	38					
105	81	84	98	112	93	88	59	47	53	60	66	61	55	57	55	57	56	36					
104	81	83	98	111	92	88	59	46	53	59	65	60	54	56	54	56	55	37					
103	81	83	97	110	92	88	59	45	52	58	64	58	53	54	54	54	54	37					
102	80	83	97	110	91	88	58	44	51	57	63	57	51	53	53	53	53	36					
101	80	83	96	109	91	88	58	43	50	56	62	55	50	52	52	52	52	35					
100	80	82	96	108	91	88	58	42	49	55	61	53	49	51	51	51	51	35					
99	80	82	96	108	90	87	58	41	48	54	60	52	48	49	49	49	49	34					
98	80	82	95	108	90	87	58	40	47	53	59	50	47	48	48	48	48	33					
97	79	81	95	107	89	87	57	39	46	52	57	49	46	47	47	47	47	32					
96	79	81	94	106	89	86	57	38	45	51	56	47	45	45	45	45	45	32					
95	79	81	93	106	88	86	57	37	44	49	54	46	44	44	44	44	44	31					
94	78	81	93	105	88	86	56	36	43	48	53	44	43	43	43	43	43	30					
93	78	80	92	104	87	85	56	35	42	46	51	42	40	40	40	40	40	29					
92	77	80	92	103	87	85	56	34	40	45	50	41	39	39	39	39	39	28					
91	77	80	91	102	86	85	55	33	39	43	48	40	38	38	38	38	38	27					
90	77	79	91	102	86	84	55	32	38	41	46	38	36	36	36	36	36	26					
89	76	79	90	101	85	84	55	31	36	39	45	37	35	35	35	35	35	25					
88	76	79	90	100	84	84	55	30	35	38	43	35	33	33	33	33	33	24					
87	76	78	89	99	84	83	54	29	33	36	41	34	32	32	32	32	32	23					
86	75	78	89	98	83	83	54	28	32	34	40	33	31	31	31	31	31	22					
85	75	78	88	98	82	82	54	27	31	32	38	32	29	29	29	29	29	21					
84	74	77	88	97	82	82	53	26	29	31	36	31	28	28	28	28	28	20					
83	74	77	87	96	81	82	53	25	28	29	34	30	27	27	27	27	27	20					
82	73	77	87	95	81	81	53	24	26	28	32	29	26	26	26	26	26	20					
81	73	76	86	95	80	81	52	23	25	27	30	28	25	25	25	25	25	19					
80	72	76	86	94	80	80	50	22	24	25	28	26	24	24	24	24	24	18					
79	72	76	85	93	79	80	52	21	23	24	27	25	23	23	23	23	23	17					
78	72	75	85	92	78	79	51	20	22	23	25	24	22	22	22	22	22	16					
77	71	75	84	92	78	79	51	19	21	21	23	23	21	21	21	21	21	15					
76	71	75	84	91	77	79	51	18	20	20	22	22	20	20	20	20	20	14					
75	70	74	83	90	77	78	50	17	19	19	20	20	19	19	19	19	19	13					
74	70	74	83	90	76	78	50	16	18	18	19	19	18	18	18	18	18	13					
73	69	74	82	89	75	77	50	15	17	17	18	18	17	17	17	17	17	12					
72	69	73	82	88	75	77	49	14	16	17	17	16	16	16	16	16	16	12					
71	68	73	81	87	74	76	49	13	16	16	15	15	15	15	15	15	15	11					
70	68	72	81	87	74	76	49	12	15	15	14	14	14	14	14	14	14	11					
69	67	72	80	86	73	75	48	11	14	14	13	13	13	13	13	13	13	10					
68	67	72	80	85	72	75	48	10	13	12	12	11	12	12	12	12	12	9					
67	67	71	79	84	72	74	48	9	12	11	11	10	10	10	10	10	10	8					
66	66	71	79	83	71	73	47	8	11	9	10	9	9	9	9	9	9	7					
65	65	71	78	82	70	73	47	7	10	8	9	8	8	8	8	8	8	7					
64	65	70	78	81	69	72	47	6	9	7	8	7	7	7	7	7	7	6					
63	64	70	77	80	69	72	46	5	8	6	7	6	6	6	6	6	6	5					
62	64	69	77	79	68	71	46	4	7	4	6	5	4	4	4	4	4	4					
61	63	69	76	78	67	70	45	3	6	3	4	4	3	3	3	3	3	3					
60	63	68	76	77	66	70	45	2	6	3	4	4	3	3	3	3	3	3					
59	62	68	75	76	66	69	44	1	5	2	3	3	2	2	2	2	2	2					
58	61	67	75	75	65	68	44																
57	61	67	74	74	64	67	43																
56	60	66	73	73	63	66	43																
55	59	66	72	72	62	65	42																
Number of items								82	85	102	117	95	90	60									
Number of items								112	117	102	117	95	90	60									

Table 15--Grade 5: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SRA-ACH 1971 Blue Level Form E Vocabulary	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form U Vocabulary	GMT 1964 Survey D Form IM Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter Form I Word Knowledge	SAT 1964 Inter II Form W Word Meaning	STEP II 1969 Level 4 Form A Part 1	Equivalent raw score							
								Raw score	Number of items						
42	40	39	45	41	48	41	30	42	40						
41	38	38	41	39	46	38	28	41	40						
38	37	37	40	38	43	35	27	38	43						
36	36	36	39	36	41	32	26	36	41						
35	35	35	37	35	40	30	26	35	40						
34	34	34	36	33	38	28	25	34	33						
33	33	33	35	31	37	26	25	33	33						
32	32	32	34	30	36	25	24	32	34						
31	31	31	33	29	35	24	23	31	29						
30	30	30	32	28	34	23	22	30	28						
29	29	29	31	27	33	22	21	29	27						
28	28	28	30	26	32	21	20	28	26						
27	27	27	29	25	31	20	19	27	25						
26	26	26	28	24	30	19	18	26	24						
25	25	25	27	23	29	18	17	25	23						
24	24	24	26	22	28	17	16	24	22						
23	23	23	25	21	27	16	15	23	21						
22	22	22	24	20	26	15	14	22	20						
21	21	21	23	19	25	14	13	21	19						
20	20	20	22	18	24	13	12	20	18						
19	19	19	21	17	23	12	11	19	17						
18	18	18	20	16	22	11	10	18	16						
17	17	17	19	15	21	10	9	17	15						
16	16	16	18	14	20	9	8	16	14						
15	15	15	17	13	19	8	7	15	13						
14	14	14	16	12	18	7	6	14	12						
13	13	13	15	11	17	6	5	13	11						
12	12	12	14	10	16	5	4	12	10						
11	11	11	13	9	15	4	3	11	9						
10	10	10	12	8	14	3	2	10	8						
9	9	9	11	7	13	2	1	9	7						
8	8	8	10	6	12	1	0	8	6						
7	7	7	9	5	11	0	0	7	5						
6	6	6	8	4	10	0	0	6	4						
5	5	5	7	3	9	0	0	5	3						
4	4	4	6	2	8	0	0	4	2						
3	3	3	5	1	7	0	0	3	1						
2	2	2	4	0	6	0	0	2	0						
1	1	1	3	0	5	0	0	1	0						
Number of items								42	40	40	50	43	50	48	30

READING COMPREHENSION

SRA-ACH 1971 Blue Level Form E Reading	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form U Comprehension	GMT 1964 Survey D Form IM Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	MAT 1970 Inter Form F Reading Comprehension	SAT 1964 Inter II Form W Paragraph Meaning	STEP II 1969 Level 4 Form A Part 1	Equivalent raw score						
								Raw score	Number of items					
48	42	45	52	72	45	63	30	48	48					
47	42	44	52	70	44	61	30	47	47					
46	41	44	51	68	43	58	29	46	46					
45	40	42	50	66	42	56	28	45	45					
44	39	42	49	64	41	53	28	44	44					
43	38	41	48	61	39	51	27	43	43					
42	37	41	47	60	39	49	26	42	42					
41	36	40	47	58	38	47	26	41	41					
40	35	39	46	56	37	45	25	40	40					
39	34	39	45	54	36	43	24	39	39					
38	34	38	44	52	35	41	24	38	38					
37	33	37	44	51	34	40	23	37	37					
36	32	37	43	49	33	38	22	36	36					
35	31	36	42	47	32	37	22	35	35					
34	31	36	41	46	31	35	21	34	34					
33	30	35	40	44	30	34	20	33	33					
32	29	34	39	43	29	33	20	32	29					
31	29	34	39	41	28	32	19	31	28					
30	28	33	38	40	27	31	18	30	28					
29	28	32	37	39	26	30	18	29	28					
28	27	31	36	37	26	29	17	28	27					
27	27	31	35	36	25	28	16	27	27					
26	26	30	34	34	24	27	16	26	26					
25	25	29	33	33	23	26	15	25	25					
24	24	28	32	32	22	25	14	24	24					
23	23	27	30	30	21	24	14	23	23					
22	23	26	29	29	20	23	13	22	22					
21	22	24	27	27	19	22	13	21	21					
20	21	23	26	26	18	21	12	20	20					
19	20	22	25	25	17	20	11	19	19					
18	19	20	23	24	16	19	11	18	18					
17	18	19	21	22	15	18	10	17	17					
16	17	17	19	21	14	17	10	16	16					
15	16	16	18	20	13	16	9	15	15					
14	15	15	16	19	12	15	8	14	14					
13	13	14	14	17	11	14	8	13	13					
12	12	12	13	16	11	13	7	12	12					
11	11	11	11	15	10	12	6	11	11					
10	10	10	10	14	9	11	6	10	10					
9	9	9	9	12	8	10	5	9	9					
8	8	8	8	11	7	9	4	8	8					
7	7	7	7	9	6	8	3	7	7					
6	6	6	6	7	5	7	3	6	6					
5	5	5	5	5	4	6	2	5	5					
4	4	4	4	4	3	5	2	4	4					
3	3	3	3	3	2	4	1	3	3					
2	2	2	2	2	1	3	0	2	2					
1	1	1	1	1	0	2	0	1	1					
Number of items								42	45	52	74	45	64	30

Table 15 - Grade 5: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SRA-ACH 1971 Blue Level Form E	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter 11 Form W	STEP II 1969 Level 4 Form A	Equivalent raw score									
								Raw score	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter 11 Form W	STEP II 1969 Level 4 Form A		
90	82	85	100	114	94	109	60	40	41	45	51	42	40	35	29		
89	81	84	98	112	93	105	59	39	41	45	50	41	39	34	28		
88	80	83	97	110	91	102	58	38	40	44	49	40	38	34	28		
87	79	82	95	108	90	98	57	37	38	43	48	39	37	33	27		
86	78	81	93	106	88	95	57	36	38	42	47	39	37	32	27		
85	77	80	92	104	87	92	56	35	37	41	46	38	36	32	26		
84	76	79	91	101	85	90	55	34	36	40	45	37	35	31	26		
83	75	78	89	99	84	87	54	33	35	38	44	36	34	31	25		
82	74	77	88	97	82	84	53	32	35	37	43	35	33	30	24		
81	73	77	87	95	81	82	53	31	34	36	41	34	32	29	24		
80	72	76	85	93	79	79	52	30	33	35	40	33	31	28	23		
79	71	75	84	92	78	77	51	29	31	33	39	32	30	28	22		
78	70	74	83	90	77	75	50	28	30	32	37	32	29	27	21		
77	69	73	82	89	75	73	50	27	29	31	36	31	28	26	20		
76	68	73	81	87	74	71	49	26	28	29	34	30	27	25	20		
75	67	72	80	86	73	69	48	25	27	28	32	29	26	24	19		
74	67	71	79	84	72	67	48	24	25	27	31	28	25	23	18		
73	66	71	79	82	70	66	47	23	24	25	29	27	24	22	17		
72	65	70	78	81	69	64	46	22	23	24	27	26	23	21	16		
71	64	69	77	79	68	62	46	21	22	23	25	24	22	20	15		
70	63	69	76	78	67	61	45	20	21	21	23	23	21	19	15		
69	62	68	75	76	66	59	45	19	20	20	22	21	20	18	14		
68	61	67	75	75	65	58	44	18	19	19	20	20	19	17	13		
67	61	67	74	73	64	57	43	17	17	18	19	18	17	16	12		
66	60	66	73	72	63	56	43	16	16	17	17	17	16	14	12		
65	59	65	72	71	62	55	42	15	16	16	16	15	15	13	11		
64	58	64	71	70	61	54	42	14	15	15	14	14	14	12	11		
63	58	64	71	69	60	53	41	13	14	13	13	13	13	11	10		
62	57	63	70	67	59	52	41	12	13	12	12	11	12	10	9		
61	56	63	69	66	58	51	40	11	12	11	11	10	11	9	8		
60	56	62	69	65	57	50	39	10	11	10	10	9	10	8	8		
59	55	61	68	64	56	49	38	9	10	9	10	8	9	7	7		
58	54	60	67	62	55	48	38	8	9	7	9	7	7	6	6		
57	54	60	66	61	55	47	38	7	8	6	8	6	6	6	5		
56	53	59	66	60	54	46	37	6	7	5	7	5	5	5	5		
55	52	58	65	59	53	46	37	5	6	4	6	4	4	4	4		
54	51	57	64	57	52	45	36	4	5	2	5	3	3	3	3		
53	51	57	63	56	51	44	36	3	5	1	4	2	2	2	2		
52	50	56	62	55	51	43	35	2	4	0	3	1	2	2	1		
51	49	55	61	54	50	42	35	1	3	0	2	1	2	1	1		
50	48	54	61	53	49	42	34	Number of items	82	85	102	117	95	112	60		
49	48	54	60	51	48	41	34										
48	47	53	59	50	47	40	33										
47	46	52	58	49	46	39	33										
46	46	51	57	48	45	39	32										
45	45	50	56	47	44	38	31										
44	44	49	55	46	43	37	31										
43	43	48	54	45	42	37	30										
42	43	48	53	44	42	36	30										
41	42	47	52	43	41	35	29										

Table 16--Grade 5: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

STEP II 1969 Level 4 Form A Part I	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form JM Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter Form F Word Knowledge	SAT 1964 Inter II Form W Meaning	SRA ACH 1971 Blue level Form E Vocabulary
Raw score	Equivalent raw score						
30	40	40	46	42	49	43	42
29	39	39	44	40	47	40	42
28	38	38	42	39	45	37	41
27	37	37	40	37	43	33	40
26	35	35	38	35	40	30	38
25	34	34	36	33	38	27	37
24	32	33	35	31	36	25	35
23	30	31	33	29	34	23	33
22	29	30	32	27	31	21	31
21	27	29	31	24	29	19	29
20	25	27	29	22	27	17	27
19	24	26	28	20	25	16	24
18	22	24	27	18	24	15	22
17	21	23	26	16	22	14	20
16	19	21	24	15	20	13	18
15	18	20	23	14	19	12	17
14	16	18	22	13	18	11	15
13	15	17	20	12	16	10	14
12	14	15	19	11	15	9	13
11	13	14	17	10	14	9	12
10	12	13	16	10	13	8	11
9	10	12	14	9	12	7	10
8	9	10	13	8	11	6	9
7	8	9	11	7	10	6	8
6	7	8	9	6	8	5	7
5	6	6	8	5	7	4	6
4	5	5	6	4	5	3	5
3	4	4	5	3	4	2	4
2	3	3	3	2	3	1	3
1	2	2	2	1	2	1	2
Number of items 30	40	40	50	43	50	48	42

READING COMPREHENSION

STEP II 1969 Level 4 Form A Part 2	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form JM Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	MAT 1970 Inter Form F Reading	SAT 1964 Inter II Form W Paragraph Meaning	SRA ACH 1971 Blue level Form E Reading
Raw score	Equivalent raw score						
30	42	45	52	72	45	62	48
29	41	44	51	68	43	58	46
28	40	42	50	65	41	55	45
27	38	41	49	62	40	52	43
26	37	40	47	59	38	48	42
25	36	39	46	56	37	45	40
24	34	38	45	54	36	43	39
23	33	38	44	51	34	40	37
22	32	37	43	49	32	38	36
21	31	36	41	46	31	36	34
20	30	35	40	44	30	34	33
19	29	34	39	42	28	32	31
18	28	33	38	39	27	30	30
17	27	31	36	37	26	29	28
16	26	30	35	35	24	27	27
15	25	29	33	33	23	26	25
14	24	27	31	31	21	24	23
13	22	25	29	28	20	22	22
12	21	23	26	26	18	21	20
11	20	21	24	24	17	20	19
10	18	19	21	22	15	18	17
9	16	16	18	20	14	17	15
8	15	15	16	18	12	15	14
7	13	13	13	13	11	13	12
6	11	11	11	11	9	12	11
5	9	9	9	12	8	10	9
4	7	8	7	10	7	8	8
3	6	6	5	7	5	6	6
2	4	4	4	5	4	4	5
1	2	3	3	3	2	3	4
Number of items 30	42	45	52	74	45	64	48

Table 16--Grade 5: Raw scores for the Sequential Tests of Educational Progress, STEP Series 11, 1969 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

STEP II 1969 Level 4 Form A	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form U	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter II Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form U	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter II Form W	SRA ACH 1971 Blue Level Form E	Equivalent raw score	
																Raw score	Number of items
60	82	85	100	114	94	109	90	25	36	39	44	36	34	31	33	82	82
59	81	84	98	111	93	105	89	24	34	37	42	35	33	30	32	81	81
58	80	82	96	109	91	101	88	23	33	35	41	34	31	29	30	80	80
57	79	81	94	107	89	97	87	22	31	33	39	32	30	28	29	79	79
56	78	80	92	104	87	93	85	21	30	32	37	31	29	27	28	78	78
55	76	79	91	101	85	90	84	20	29	30	35	30	28	26	27	77	77
54	75	78	89	98	83	86	82	19	27	29	33	29	26	24	25	76	76
53	74	77	87	96	81	83	80	18	26	27	31	28	25	23	24	75	75
52	72	76	86	94	80	80	78	17	24	26	29	27	24	22	23	74	74
51	71	75	84	92	78	77	79	16	23	24	26	25	23	21	22	73	73
50	70	74	83	90	76	74	78	15	21	22	24	24	21	20	21	72	72
49	68	73	81	87	74	71	76	14	20	20	22	22	20	18	19	71	71
48	67	72	80	85	72	68	75	13	18	19	20	20	18	17	18	70	70
47	66	71	78	82	70	65	73	12	17	17	17	17	17	15	16	69	69
46	64	70	77	80	69	63	72	11	15	16	15	15	15	13	15	68	68
45	63	69	76	77	67	61	70	10	14	14	13	13	13	11	13	67	67
44	62	68	75	75	65	58	68	9	13	12	12	12	12	10	12	66	66
43	60	66	73	73	64	56	67	8	12	11	11	10	10	9	11	65	65
42	59	65	72	71	62	54	65	7	10	9	10	9	9	8	9	64	64
41	58	64	71	69	60	53	63	6	9	7	8	7	7	6	8	63	63
40	56	63	69	66	58	51	61	5	8	6	7	6	6	5	7	62	62
39	55	61	68	64	57	49	59	4	7	4	6	5	4	4	5	61	61
38	54	60	67	62	55	48	57	3	6	2	5	3	3	3	4	60	60
37	52	59	65	59	53	46	55	2	4	1	4	2	2	2	3	59	59
36	51	57	64	57	52	44	54	1	3	1	3	2	2	1	2	58	58
35	50	56	62	55	50	43	52									57	57
34	48	54	60	52	49	41	50									56	56
33	47	53	59	50	47	40	48									55	55
32	46	51	57	48	45	39	46									54	54
31	44	50	55	46	44	37	44									53	53
30	43	48	53	44	42	36	42									52	52
29	42	46	51	43	40	35	40									51	51
28	40	45	50	41	39	34	39									50	50
27	39	43	48	39	37	33	37									49	49
26	37	41	46	38	36	32	35									48	48
								60	82	85	102	117	95	112	90		





Table 17—Grade 6: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CAT 1970 Level 4 Form A Vocabulary	CTBS 1968 Level 4 Form A Vocabulary	GMT 1964 Series 1 Form A Vocabulary	ITBS 1971 Level 2 Form B Vocabulary	MAT 1970 Form 1 Word Knowledge	SAT 1965 Form W Word Meaning	SRA ACH 1971 Green Level Form 1 Vocabulary	STEP II 1969 Level 4 Form 1 Part 1
Raw score	Equivalent raw score						
40	40	50	46	50	48	42	30
39	40	49	45	50	47	42	30
38	39	49	44	50	46	44	30
37	39	48	43	50	45	42	30
36	37	47	42	49	44	41	30
35	36	46	41	48	43	41	30
34	35	45	40	48	42	40	29
33	34	44	39	47	41	39	29
32	33	43	38	46	40	38	28
31	32	42	37	45	38	37	28
30	30	41	35	45	37	36	28
29	29	41	34	44	36	35	27
28	28	40	33	43	34	34	27
27	27	39	32	42	33	33	26
26	26	38	31	40	31	32	26
25	24	37	29	39	30	31	25
24	23	36	28	38	28	29	25
23	22	36	27	37	27	28	24
22	21	35	26	36	26	27	24
21	20	34	25	35	24	26	23
20	19	33	24	33	23	24	23
19	18	33	22	32	22	23	22
18	17	32	21	31	21	22	22
17	16	31	20	30	20	21	21
16	15	30	19	28	19	19	20
15	14	29	18	27	18	18	20
14	13	28	17	25	17	17	19
13	13	27	16	23	16	15	18
12	12	26	15	22	14	14	17
11	11	24	14	20	13	13	16
10	10	23	13	18	12	12	14
9	9	21	12	16	11	11	13
8	8	18	11	15	10	10	11
7	7	16	10	13	9	9	10
6	6	14	9	12	8	8	9
5	5	12	8	10	7	7	7
4	4	11	6	9	5	6	6
3	3	9	5	7	4	5	5
2	2	7	4	5	3	4	4
1	1	5	3	3	2	2	2
Number of items	40	50	46	50	43	42	30

READING COMPREHENSION

CAT 1970 Level 4 Form A Comprehension	CTBS 1968 Level 4 Form A Comprehension	GMT 1964 Series 1 Form A Comprehension	ITBS 1971 Level 2 Form B Comprehension	MAT 1970 Form 1 Main Idea	SAT 1964 Form W Paragraph Meaning	SRA ACH 1971 Green Level Form 1 Reading	STEP II 1969 Level 4 Form 1 Part 2
Raw score	Equivalent raw score						
45	45	52	76	45	64	48	30
44	45	52	75	45	64	48	30
43	44	52	73	45	63	48	30
42	43	52	71	45	62	48	30
41	42	52	69	44	61	47	30
40	42	52	67	44	60	47	30
39	41	52	66	43	60	46	29
38	40	51	64	43	59	46	29
37	39	51	63	42	58	45	28
36	39	51	61	42	57	44	28
35	38	50	59	41	56	44	28
34	37	50	58	41	55	43	28
33	36	49	56	40	54	42	27
32	36	48	54	40	53	41	27
31	35	48	53	39	51	40	26
30	34	48	51	39	50	39	26
29	33	47	49	38	49	38	26
28	32	47	47	37	47	37	25
27	31	46	45	36	46	36	25
26	30	46	43	36	44	34	24
25	29	45	42	35	43	33	23
24	28	44	40	34	41	32	23
23	27	43	38	33	39	30	22
22	26	42	36	32	38	29	21
21	25	41	34	30	36	27	20
20	24	40	32	29	34	25	19
19	22	39	30	28	32	24	18
18	21	37	28	26	30	22	17
17	20	35	26	24	28	20	16
16	18	33	24	22	26	18	15
15	17	31	23	21	24	17	13
14	15	28	21	19	22	15	12
13	14	25	20	17	20	14	11
12	13	21	18	15	18	13	10
11	11	18	17	13	17	11	8
10	10	15	15	11	15	10	7
9	9	13	14	10	13	9	6
8	8	10	12	8	11	7	5
7	7	8	9	7	10	6	4
6	6	7	7	6	8	5	3
5	4	5	6	5	6	4	2
4	3	4	4	4	4	3	2
3	2	3	3	3	3	2	1
2	2	2	2	2	2	1	1
1	1	1	1	1	1	0	0
Number of items	45	52	76	45	64	48	30

Table 17--Grade 6: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form G	GMT 1964 Survey D Form TM	ITBS 1971		MAT 1970 Inter Form F	SAT 1964 Inter II Form W	SRA ACH 1971 Inter Level Form E	STEP II 1969 Level 4 Form A
			Level 12 Form 5	Level 11 Form F				
Equivalent raw score								
Raw score	Equivalent raw score							
85	85	102	122	121	95	112	90	60
84	85	102	121	121	95	112	90	60
83	85	102	120	120	95	111	90	60
82	84	102	119	119	95	110	90	60
81	83	101	117	117	94	109	90	60
80	82	101	116	116	94	108	89	60
79	82	101	114	114	94	107	89	60
78	81	100	113	113	93	106	89	60
77	80	100	112	112	93	106	88	59
76	79	99	110	110	92	105	88	59
75	78	99	109	109	92	104	88	59
74	78	98	108	108	92	103	87	58
73	77	98	106	106	91	102	87	58
72	76	97	105	105	91	101	86	58
71	75	96	104	104	90	100	85	57
70	74	96	102	102	89	99	84	57
69	73	95	101	101	89	98	84	57
68	72	94	99	99	88	97	83	56
67	71	94	97	97	88	96	82	56
66	70	93	96	96	87	95	81	56
65	69	93	94	94	86	94	80	55
64	68	92	93	93	86	92	79	55
63	67	91	91	91	85	91	79	55
62	66	91	90	90	84	90	78	54
61	65	90	88	88	84	88	77	54
60	64	89	87	87	83	87	76	53
59	63	88	85	85	82	86	75	53
58	62	88	83	83	82	84	74	53
57	61	87	82	82	81	83	73	52
56	60	86	80	80	80	82	71	52
55	59	86	79	79	80	80	70	51
54	58	85	77	77	79	79	69	51
53	57	84	76	76	78	78	68	50
52	56	84	74	74	76	76	67	50
51	55	83	72	72	75	74	65	49
50	54	82	71	71	74	73	64	49
49	53	81	70	70	73	71	63	48
48	52	80	68	68	72	69	61	47
47	51	79	66	66	71	68	60	47
46	49	78	65	65	70	66	58	46
45	48	78	63	63	69	65	57	46
44	47	77	62	62	67	63	55	45
43	46	76	60	60	66	61	54	44
42	45	75	59	59	65	60	52	43
Number of items								85
Number of items								85
Number of items								102
Number of items								122
Number of items								95
Number of items								112
Number of items								90
Number of items								60



Table 18--Grade 6: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CTBS 1968	CAT 1970	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
Form 1 Vocabulary	Form 4 Vocabulary	Form 13 Vocabulary	Form 12 Vocabulary	Form 1 Words	Form 11 Words	Form 11 Vocabulary	Form 4 Part I
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score
Equivalent raw score							
40	40	50	46	50	48	42	30
39	38	48	44	50	46	42	30
38	37	47	43	49	44	42	30
37	36	47	42	49	43	41	30
36	35	46	41	48	42	40	29
35	34	45	40	48	42	40	29
34	34	44	39	47	41	39	29
33	32	43	38	46	40	38	28
32	31	42	37	46	39	38	28
31	31	42	36	45	37	37	28
30	30	41	35	44	36	36	27
29	29	41	34	44	35	35	27
28	28	40	33	43	34	34	27
27	27	39	32	42	33	33	26
26	26	38	31	41	32	32	26
25	26	38	30	40	30	31	26
24	25	37	29	39	29	30	25
23	24	36	28	38	28	29	26
22	23	36	27	37	27	26	24
21	22	35	26	36	26	27	24
20	21	34	25	35	24	26	23
19	20	34	24	33	23	24	23
18	19	33	23	32	22	23	22
17	18	32	21	31	21	22	22
16	17	31	20	29	20	20	21
15	16	30	19	28	19	19	20
14	15	29	18	26	17	17	19
13	14	28	16	24	16	16	18
12	13	26	15	23	15	15	17
11	11	25	14	21	14	13	16
10	10	23	13	19	13	12	15
9	9	21	12	17	11	11	13
8	8	18	11	15	10	10	11
7	7	16	9	13	8	9	10
6	6	14	8	11	7	8	8
5	5	12	7	10	6	7	7
4	4	10	6	8	5	6	6
3	3	8	5	6	4	4	4
2	2	6	4	4	3	3	3
1	1	4	3	2	1	1	1
Number of items	40	50	46	50	48	42	30

READING COMPREHENSION

CTBS 1968	CAT 1970	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
Form 2 Reading Comprehension	Form 4 Reading Comprehension	Form 13 Reading Comprehension	Form 12 Reading Comprehension	Form 1 Reading Comprehension	Form 11 Reading Comprehension	Form 11 Reading Comprehension	Form 4 Part 2
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score
Equivalent raw score							
45	44	52	75	45	64	48	30
44	43	52	72	45	62	48	30
43	42	51	71	45	62	48	30
42	41	50	68	44	61	47	30
41	39	50	66	44	60	47	29
40	38	51	64	43	59	46	29
39	37	51	62	42	58	45	29
38	35	50	60	42	57	44	28
37	34	50	58	41	55	42	28
36	33	49	56	40	54	42	27
35	32	49	54	40	52	41	27
34	30	48	52	39	51	40	26
33	29	46	49	38	49	38	26
32	28	47	47	37	47	37	25
31	27	46	45	36	46	36	25
30	26	46	43	35	44	34	24
29	25	45	41	34	43	33	23
28	24	44	39	33	41	31	23
27	23	43	36	32	39	30	22
26	22	42	36	31	38	28	21
25	21	41	34	30	36	27	20
24	20	40	33	29	34	26	19
23	19	39	31	28	33	24	19
22	19	38	30	27	32	23	18
21	18	37	28	26	30	22	17
20	17	36	27	25	29	21	16
19	17	35	26	24	28	19	15
18	16	33	24	22	26	18	15
17	15	32	23	21	25	17	14
16	15	30	22	20	23	16	13
15	14	27	21	18	22	15	12
14	13	25	20	17	20	14	11
13	12	23	19	15	19	13	10
12	12	20	18	14	18	12	9
11	11	18	16	13	16	11	8
10	10	15	15	11	15	10	7
9	9	13	14	10	13	9	6
8	8	12	12	9	11	8	5
7	7	9	10	7	10	7	4
6	6	7	8	6	8	5	3
5	6	6	7	5	7	4	3
4	5	5	5	4	6	4	2
3	4	4	4	3	4	3	2
2	3	3	3	2	3	2	1
1	2	2	2	1	1	1	1
Number of items	45	52	76	45	64	48	30

Table 18—Grade 6: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

CTBS 1968 Level 3 Form Q	CAT 1970 Level 4 Form A	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter- Form E	SAT 1964 Inter- Form W	SRA ACH 1971 Green Level Form F	STEP II 1969 Level 4 Form A	Equivalent raw score	
								Raw score	Number of items
85	85	102	121	95	112	90	60	40	85
84	82	102	119	95	110	90	60	39	85
83	81	101	117	94	109	90	60	38	85
82	80	101	115	94	108	89	60	37	85
81	78	100	113	93	107	89	60	36	85
80	77	100	112	93	106	89	59	35	85
79	76	99	110	92	104	88	59	34	85
78	75	99	108	92	103	87	59	33	85
77	73	98	107	91	102	87	58	32	85
76	72	97	105	91	101	86	58	31	85
75	71	96	103	90	100	85	57	30	85
74	70	96	102	89	99	84	57	29	85
73	69	95	100	87	98	84	57	28	85
72	68	94	99	88	97	83	56	27	85
71	67	94	98	88	96	83	56	26	85
70	66	93	96	87	95	81	56	25	85
69	65	93	94	86	94	81	55	24	85
68	64	92	93	86	92	79	55	23	85
67	63	91	91	85	91	79	55	22	85
66	62	91	89	84	90	78	54	21	85
65	61	90	88	84	88	77	54	20	85
64	60	89	86	83	87	76	53	19	85
63	59	88	85	82	86	75	53	18	85
62	58	88	83	82	84	74	53	17	85
61	57	87	82	81	83	73	52	16	85
60	56	86	80	80	81	71	52	15	85
59	55	86	79	79	80	70	51	14	85
58	54	85	77	78	79	69	51	13	85
57	53	84	75	77	77	68	50	12	85
56	52	83	74	76	76	67	50	11	85
55	51	83	72	75	74	65	49	10	85
54	50	82	71	74	73	64	49	9	85
53	49	81	70	73	71	63	48	8	85
52	48	81	68	72	70	62	48	7	85
51	47	80	67	71	68	60	47	6	85
50	47	79	66	70	67	59	47	5	85
49	46	78	64	69	66	58	46	4	85
48	45	77	63	68	64	56	45	3	85
47	44	76	61	67	62	55	45	2	85
46	43	75	60	66	61	54	44	1	85
45	42	75	58	65	60	52	43		85
44	41	74	57	64	58	51	42		85
43	40	73	56	62	57	50	42		85
42	39	72	54	61	56	49	41		85
41	39	71	53	60	55	47	41		85
									85
									102
									122
									95
									112
									90
									60

Table 19—Grade 6: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

GMT 1964 Form 1A Vocabulary Part 1	CAT 1970 Form 4 Vocabulary	CTBS 1968 Level 3 Form 3 Vocabulary	ITBS 1971 Level 12 Form 1 Vocabulary	MAT 1970 Form 1 Word Knowledge	SAT 1964 Form 2 Word Meaning	SRA ACH 1971 Level 1 Vocabulary	STEP II 1969 Level 4 Part 1	Equivalent raw score	
								Raw score	Number of items
50	40	40	46	50	48	42	30	46	42
49	39	40	45	50	46	47	30	46	42
48	37	39	44	50	45	47	30	46	42
47	36	38	42	49	44	41	30	46	42
46	35	36	41	48	43	41	30	46	42
45	34	35	40	48	42	40	29	46	42
44	33	34	39	47	41	39	29	46	42
43	32	33	38	46	39	38	28	46	42
42	31	32	36	45	38	37	28	46	42
41	30	30	35	44	36	36	27	46	42
40	28	28	33	43	35	35	27	46	42
39	27	27	32	42	33	33	26	46	42
38	26	26	31	41	31	32	26	46	42
37	25	24	29	39	30	31	25	46	42
36	24	23	28	38	28	29	25	46	42
35	22	21	26	36	26	27	24	46	42
34	21	20	25	34	24	25	23	46	42
33	20	18	23	33	23	24	23	46	42
32	18	17	22	31	21	22	22	46	42
31	17	16	20	30	20	21	21	46	42
30	16	15	19	28	19	19	20	46	42
29	15	14	18	27	18	18	20	46	42
28	14	13	17	25	17	17	19	46	42
27	13	13	16	24	16	15	18	46	42
26	12	12	15	22	15	14	17	46	42
25	12	11	14	21	14	13	16	46	42
24	11	11	14	20	13	13	15	46	42
23	10	10	13	19	13	12	15	46	42
22	10	10	13	18	12	11	14	46	42
21	9	9	12	17	11	11	13	46	42
20	9	9	12	16	11	11	13	46	42
19	8	8	11	15	10	10	12	46	42
18	8	8	11	15	10	10	11	46	42
17	7	7	10	14	9	9	11	46	42
16	7	7	10	13	9	9	10	46	42
15	6	6	9	12	8	8	9	46	42
14	6	6	9	12	8	8	9	46	42
13	5	5	8	11	7	7	8	46	42
12	5	5	7	10	6	6	7	46	42
11	4	4	5	9	5	5	6	46	42
10	4	4	6	8	5	5	6	46	42
9	3	3	4	7	4	4	5	46	42
8	3	3	5	6	4	4	4	46	42
7	2	2	3	4	3	3	4	46	42
6	2	2	4	4	3	3	3	46	42
5	1	1	2	3	2	2	2	46	42
4	1	1	3	2	2	2	1	46	42
3	0	0	1	2	1	1	1	46	42
2	0	0	1	1	1	0	1	46	42
1	0	0	1	0	1	0	0	46	42
50	40	40	46	50	48	42	30	46	42

READING COMPREHENSION

GMT 1964 Form 1B Comprehension	CAT 1970 Form 4 Comprehension	CTBS 1968 Level 3 Form 3 Comprehension	ITBS 1971 Level 12 Form 1 Comprehension	MAT 1970 Form 1 Reading	SAT 1964 Form 2 Reading Meaning	SRA ACH 1971 Level 1 Reading	STEP II 1969 Level 4 Part 1	Equivalent raw score	
								Raw score	Number of items
57	40	42	68	44	61	47	30	45	48
56	37	39	62	42	58	45	29	45	48
55	35	37	58	41	56	43	28	45	48
54	32	34	54	40	53	41	27	45	48
53	30	34	51	39	50	39	26	45	48
52	28	32	48	37	48	37	25	45	48
51	27	31	45	36	45	35	24	45	48
50	25	29	42	35	43	34	24	45	48
49	24	28	40	34	41	32	23	45	48
48	23	27	38	33	39	30	22	45	48
47	22	26	36	31	38	29	21	45	48
46	21	25	34	30	36	27	20	45	48
45	20	24	32	29	34	25	19	45	48
44	19	23	31	28	32	24	18	45	48
43	19	22	29	27	31	23	18	45	48
42	18	21	28	26	30	22	17	45	48
41	17	20	27	25	29	21	16	45	48
40	16	19	26	24	28	20	16	45	48
39	16	19	25	23	27	19	15	45	48
38	16	18	24	22	26	18	14	45	48
37	16	17	24	21	25	18	14	45	48
36	15	17	23	21	24	17	14	45	48
35	15	16	22	20	24	16	14	45	48
34	15	16	22	20	24	16	14	45	48
33	14	15	21	19	23	15	13	45	48
32	14	15	21	19	23	15	13	45	48
31	14	14	20	18	21	15	12	45	48
30	13	14	20	17	20	14	11	45	48
29	13	14	19	16	20	14	11	45	48
28	13	13	19	16	19	13	10	45	48
27	12	13	19	15	19	13	10	45	48
26	12	12	18	14	18	12	9	45	48
25	12	12	18	14	18	12	9	45	48
24	11	12	17	13	17	12	9	45	48
23	11	11	17	13	16	11	8	45	48
22	11	11	16	12	16	11	8	45	48
21	11	11	16	12	16	11	8	45	48
20	10	10	16	12	15	10	7	45	48
19	10	10	15	11	15	10	7	45	48
18	10	10	15	11	14	9	7	45	48
17	9	9	14	10	13	9	6	45	48
16	9	9	13	9	13	9	6	45	48
15	8	8	13	8	12	8	5	45	48
14	8	8	12	8	12	8	5	45	48
13	7	7	11	7	11	7	5	45	48
12	7	7	10	6	10	7	4	45	48
11	6	6	9	5	9	6	4	45	48
10	6	6	8	5	8	5	3	45	48
9	5	5	7	4	7	4	3	45	48
8	5	5	7	4	7	4	3	45	48
7	4	4	6	3	6	3	2	45	48
6	4	4	5	3	5	3	2	45	48
5	3	3	4	2	4	2	2	45	48
4	3	3	4	2	4	2	2	45	48
3	2	2	3	1	3	2	1	45	48
2	2	2	3	1	3	2	1	45	48
1	1	1	2	0	2	1	1	45	48
50	40	40	46	50	48	42	30	45	48

Table 19--Grade 6. Raw scores for the Gates MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

GMT 1964	CAT 1976	CTBS 1968	ITB 1971	Equivalent raw score			SRA ACH 1971	STEP II 1969
				MAT 1976	SAT 1964	SRA ACH 1971		
				Form 1 100	Form 2 100	Form 4 100		
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	
107	58	85	136	91	111	91	109	
100	56	81	116	84	106	83	106	
106	76	86	112	93	106	88	99	
99	76	79	110	92	104	86	99	
98	74	77	107	91	103	87	98	
97	72	76	105	91	101	86	98	
96	71	75	103	90	100	85	97	
95	73	73	101	89	98	84	97	
94	68	71	98	88	97	82	96	
93	65	70	96	87	95	81	95	
92	64	68	93	86	93	80	95	
91	63	67	91	85	91	78	94	
90	61	65	88	84	89	77	94	
89	64	64	86	83	87	76	93	
88	56	62	84	82	85	74	93	
87	57	61	82	81	83	73	92	
86	60	60	80	80	81	71	91	
85	54	58	77	78	79	69	91	
84	53	57	75	77	77	68	90	
83	51	56	73	76	75	66	89	
82	50	54	71	74	73	64	88	
81	49	53	69	73	71	63	88	
80	47	51	68	72	69	61	87	
79	47	50	66	70	67	59	87	
78	46	49	64	69	66	58	86	
77	44	48	63	68	64	56	85	
76	43	47	61	67	62	55	84	
75	42	45	59	65	60	53	84	
74	41	44	57	64	59	51	83	
73	40	43	56	62	57	50	82	
72	39	42	54	61	56	48	81	
71	38	41	53	60	54	47	80	
70	37	40	51	59	53	46	80	
69	37	39	50	58	51	44	79	
68	36	38	49	56	50	43	78	
67	35	37	47	55	49	42	78	
66	34	36	46	54	48	41	77	
65	33	35	45	53	47	40	77	
64	33	34	44	52	46	39	76	
63	32	33	43	51	45	38	76	
62	31	33	42	50	44	37	75	
61	30	32	42	49	43	36	75	
60	31	31	41	48	42	35	74	
59	30	31	40	47	41	34	74	
58	29	30	39	46	41	33	73	
57	29	29	39	45	40	33	73	
56	28	28	38	44	39	32	72	
55	28	28	37	43	38	31	72	
54	27	27	36	42	37	30	71	
53	27	27	36	41	37	30	71	
52	26	27	36	40	36	29	70	
51	25	26	35	39	35	28	70	
50	25	25	34	38	34	27	69	
49	24	25	34	37	34	26	69	
48	24	24	33	36	33	25	68	

Equivalent raw score		Equivalent raw score		Equivalent raw score		Equivalent raw score	
Form 1 100	Form 2 100	Form 1 100	Form 2 100	Form 1 100	Form 2 100	Form 1 100	Form 2 100
90	112	95	122	85	122	90	60
Number of items	102	85	85	122	95	112	60

Table 20 - Grade 6: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY										READING COMPREHENSION										
ITBS 1971	CAT 1970	CTBS 1968	GMT 1964	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	ITBS 1971	CAT 1970	CTBS 1968	GMT 1964	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969					
Level 12 Form 5 Vocab score	Level 4 Form 4 Vocab score	Level 3 Form 3 Vocabulary	Level 3 Form 3 Vocabulary	Level 4 Form 4 Vocab score	Level 4 Form 4 Meaning	Level 3 Form 3 Vocabulary	Level 4 Form 4 Vocab score	Level 12 Form 5 Reading Comprehension	Level 4 Form 4 Comprehension	Level 3 Form 3 Comprehension	Level 3 Form 3 Comprehension	Level 4 Form 4 Reading	Level 4 Form 4 Meaning	Level 3 Form 3 Reading	Level 4 Form 4 Reading					
Raw score	Equivalent raw score										Equivalent raw score									
40	40	40	50	50	48	42	30	76	45	45	52	45	64	48	30					
45	39	41	49	50	47	42	30	75	44	45	52	45	64	48	30					
44	38	39	48	50	46	42	30	74	44	45	52	45	63	48	30					
43	37	38	48	49	45	42	30	73	43	44	52	45	63	48	30					
42	36	37	47	49	44	41	30	72	43	44	52	45	63	48	30					
41	35	36	46	48	43	40	30	71	42	43	52	45	62	48	30					
40	34	35	45	48	42	40	29	70	42	43	52	44	62	48	30					
39	33	34	44	47	41	39	29	69	41	42	52	44	61	47	30					
38	32	33	43	46	40	39	29	68	41	42	52	44	61	47	30					
37	31	32	43	46	39	38	28	67	40	41	52	44	60	47	30					
36	31	31	42	45	38	37	28	66	39	41	52	43	60	47	29					
35	30	30	41	44	37	36	28	65	39	41	52	43	59	46	29					
34	29	29	41	44	35	35	27	64	38	40	51	43	59	46	29					
33	28	28	40	43	34	34	27	63	37	40	51	43	58	45	29					
32	27	27	39	42	33	34	26	62	37	39	51	42	58	45	29					
31	26	26	36	41	32	32	26	61	36	39	51	42	57	45	28					
30	26	25	36	40	31	31	26	60	36	38	50	42	57	44	28					
29	25	24	37	39	29	30	25	59	35	38	50	41	56	44	28					
28	24	23	36	38	28	29	25	58	34	37	50	41	55	43	28					
27	23	22	36	37	27	28	24	57	34	37	50	41	55	43	27					
26	22	21	35	36	26	27	24	56	33	36	50	40	54	42	27					
25	21	20	34	35	25	26	24	55	33	36	49	40	53	42	27					
24	20	19	34	34	24	25	23	54	32	35	49	40	53	41	27					
23	20	18	33	33	22	24	23	53	31	35	49	39	52	40	27					
22	19	18	32	32	21	22	22	52	31	34	48	39	51	40	26					
21	18	17	32	30	20	21	22	51	30	34	48	39	50	39	26					
20	17	16	31	29	20	20	21	50	30	33	48	38	49	39	26					
19	16	15	30	28	19	19	20	49	29	33	48	38	49	38	26					
18	15	14	29	27	18	18	20	48	29	32	47	38	48	38	25					
17	14	14	28	25	17	17	19	47	28	32	47	37	47	37	25					
16	13	13	27	24	16	15	18	46	28	31	47	37	47	36	25					
15	12	12	26	22	15	14	17	45	27	31	46	36	46	36	25					
14	11	11	25	20	14	13	16	44	27	31	46	36	45	35	24					
13	10	10	23	19	13	12	15	43	26	30	45	35	44	34	24					
12	9	9	21	17	11	11	13	42	25	29	45	35	43	34	24					
11	8	8	19	15	10	10	12	41	25	29	45	34	42	33	23					
10	7	7	17	14	9	9	10	40	24	28	44	34	41	32	23					
9	6	6	15	12	8	8	9	39	24	28	44	33	40	31	22					
8	5	5	13	11	7	7	8	38	23	27	43	33	39	30	22					
7	5	5	12	10	6	7	7	37	22	27	42	32	38	29	22					
6	4	4	10	9	5	6	6	36	22	26	42	31	37	28	21					
5	3	3	9	7	4	5	5	35	21	26	42	31	37	28	21					
4	2	2	7	5	3	3	4	34	21	25	41	30	36	27	20					
3	1	1	5	3	2	2	2	33	20	24	40	30	35	26	20					
2	0	1	3	1	1	0	1	32	20	24	40	29	34	25	19					
1	0	0	1	0	1	0	0	31	19	23	39	28	33	24	19					
								30	19	22	39	27	32	23	18					
								29	18	22	38	27	31	23	18					
								28	18	21	37	26	30	22	17					
								27	17	20	36	25	29	21	16					
								26	17	19	35	24	28	20	16					
								25	16	19	34	23	27	19	15					
								24	16	18	33	22	26	18	14					
								23	15	18	33	22	26	18	14					
								22	15	17	32	21	25	17	14					
								21	14	17	31	21	24	16	13					
								20	14	16	30	20	23	16	13					
								19	13	15	29	19	23	15	13					
								18	13	14	28	18	22	14	13					
								17	12	13	27	17	21	13	13					
								16	11	12	26	16	20	12	13					
								15	11	11	25	15	19	11	12					
								14	10	10	23	14	18	10	11					
								13	9	9	21	13	17	9	10					
								12	8	8	19	12	16	8	9					
								11	7	7	17	11	15	7	8					
								10	6	6	15	10	14	6	7					
								9	5	5	14	9	13	5	6					
								8	4	4	12	8	12	4	5					
								7	3	3	11	7	11	3	4					
								6	2	2	9	6	10	2	3					
								5	1	1	7	5	9	1	2					
								4	0	0	5	4	8	0	1					
								3	0	0	4	3	7	0	0					
								2	0	0	3	2	6	0	0					
								1	0	0	1	1	5	0	0					
								0	0	0	0	0	4	0	0					
								Number of items	40	40	50	50	48	42	30					

Table 20—Grade 6: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION											
ITBS 1971	CAT 1970	CTBS 1968	GMT 1964	MAT 1970	SAT 1964	SRA-ACH 1971	STEP II 1968				
Level 12 Form 5 Reading Compre- hension	Level 4 Form A Compre- hension	Level 3 Form Q Compre- hension	Survey D Form TM Compre- hension	Inter Form F Reading	Inter II Form W Paragraph Meaning	Green Level Form E Reading	Level 4 Form A Part 2				
Raw score	Equivalent raw score										
21	14	15	28	18	22	15	12				
20	13	14	26	17	21	14	11				
19	13	13	23	16	19	13	10				
18	12	12	21	14	18	12	9				
17	11	12	19	13	17	11	9				
16	11	11	17	12	16	11	8				
15	10	11	15	11	15	10	7				
14	9	9	13	10	13	9	6				
13	9	9	12	9	12	8	6				
12	8	8	11	9	11	8	5				
11	8	8	10	8	11	7	5				
10	7	7	9	8	10	6	4				
9	7	7	8	7	9	6	4				
8	6	6	7	7	8	5	4				
7	6	5	7	6	7	5	3				
6	5	5	6	5	6	4	3				
5	5	4	5	4	5	3	2				
4	4	3	4	3	4	3	2				
3	3	3	3	3	3	2	1				
2	3	1	2	2	2	1	1				
1	2	1	1	1	1	1	0				
Number of items	45	45	52	45	64	48	30				
76											



Table 20 - Grade 6: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

ITBS 1971	CAT 1970	CTBS 1968	GMT 1964	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	ITBS 1971	CAT 1970	CTBS 1968	GMT 1964	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
85	85	85	102	95	112	90	65	57	47	51	80	71	68	60	47
84	84	84	102	95	112	90	65	57	47	51	80	71	68	60	47
83	83	83	102	95	111	90	65	55	46	50	79	70	66	59	46
82	82	82	102	95	110	90	60	54	46	49	78	69	65	58	46
81	81	81	102	95	110	90	60	53	45	48	77	68	64	57	45
80	80	80	102	94	109	90	60	52	44	48	77	68	63	56	45
79	79	79	101	94	108	89	60	51	44	47	76	67	62	55	45
78	78	78	101	94	108	89	60	50	43	46	76	66	61	54	44
77	77	77	101	94	107	89	60	49	43	46	76	66	61	54	44
76	76	76	101	94	107	89	60	48	42	45	75	64	59	52	43
75	75	75	100	93	107	89	60	47	42	45	75	64	59	52	43
74	74	74	100	93	106	89	59	46	41	44	74	64	58	51	42
73	73	73	100	93	105	88	59	45	40	43	73	63	57	50	42
72	72	72	99	92	105	88	59	44	40	43	73	62	56	49	41
71	71	71	99	92	104	88	59	43	39	42	72	61	55	48	41
70	70	70	98	92	103	87	59	42	39	41	71	60	54	47	40
69	69	69	98	91	102	87	58	41	38	40	71	59	53	46	40
68	68	68	98	91	102	86	58	40	37	39	70	58	52	45	39
67	67	67	98	91	101	86	58	39	37	39	69	57	51	44	39
66	66	66	97	90	101	86	58	38	36	38	68	57	50	43	38
65	65	65	96	90	100	85	57	37	35	37	68	56	49	42	38
64	64	64	96	89	100	85	57	36	35	36	67	55	48	41	37
63	63	63	95	89	99	84	57	35	35	35	66	54	48	40	37
62	62	62	95	89	98	83	56	34	34	34	65	52	47	39	36
61	61	61	94	88	97	83	56	33	33	33	64	51	46	38	35
60	60	60	94	88	97	82	56	32	32	33	63	50	45	37	35
59	59	59	94	88	96	82	56	31	32	32	62	49	44	36	34
58	58	58	93	87	95	81	56	30	31	31	60	48	42	35	33
57	57	57	93	87	94	81	56	29	30	30	59	47	41	34	32
56	56	56	92	86	94	80	55	28	29	29	58	45	40	33	32
55	55	55	92	86	93	80	55	28	28	29	56	42	39	32	31
54	54	54	92	86	93	80	55	27	27	28	55	42	38	31	30
53	53	53	91	85	91	79	55	26	26	27	53	41	37	30	29
52	52	52	91	85	90	78	54	25	25	26	51	39	36	28	28
51	51	51	91	85	90	78	54	24	24	25	49	37	34	27	27
50	50	50	90	84	90	77	54	23	23	24	47	36	33	26	26
49	49	49	90	84	88	77	54	22	22	24	47	36	33	26	26
48	48	48	90	83	88	76	54	21	21	23	45	34	32	25	24
47	47	47	89	83	87	76	53	20	20	23	43	32	31	24	23
46	46	46	89	83	87	75	53	20	20	22	40	31	29	23	22
45	45	45	88	82	86	74	53	19	19	21	38	29	28	22	21
44	44	44	88	81	84	74	53	18	18	20	36	28	27	21	20
43	43	43	87	81	83	73	52	17	17	19	33	26	26	20	19
42	42	42	87	81	82	72	52	16	16	19	33	26	26	20	19
41	41	41	86	80	82	72	52	15	15	18	31	25	25	20	18
40	40	40	86	80	81	71	52	14	14	18	29	24	24	19	17
39	39	39	86	79	81	71	51	13	13	17	27	23	23	18	16
38	38	38	85	79	80	71	51	12	12	16	26	22	21	17	15
37	37	37	85	79	80	70	51	11	11	16	26	22	21	17	15
36	36	36	85	78	79	69	51	10	10	15	24	21	20	16	14
35	35	35	84	78	77	68	50	9	9	15	23	20	19	15	13
34	34	34	84	78	77	68	50	9	9	15	22	19	18	15	13
33	33	33	83	77	77	68	50	8	8	14	22	19	18	15	13
32	32	32	83	76	76	66	49	8	8	14	21	18	17	14	12
31	31	31	83	75	75	66	49	7	7	13	20	17	16	13	11
30	30	30	83	74	74	65	49	7	7	13	20	17	16	13	11
29	29	29	82	74	73	64	48	6	6	12	19	16	15	12	10
28	28	28	82	73	72	63	48	6	6	11	17	15	14	11	10
27	27	27	81	73	71	62	48	5	5	10	16	14	13	10	9
26	26	26	81	73	71	62	48	5	5	10	16	14	13	10	9
25	25	25	80	72	71	61	48	4	4	9	14	13	12	9	8
24	24	24	80	72	69	61	48	4	4	9	14	13	12	9	8

Table 20--Grade 6: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING										
ITBS 1971	CAT 1970	CTBS 1968	GMT 1964	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969			
Level 1,2 Form 5	Level 4 Form 4	Level 3 Form 3	Series 23 Form 15	Level 1 Form 1	Level II Form W	Green Level Form E	Level 4 Form A			
Equivalent raw score										
Raw Score										
12	9	8	13	11	9	7	7			
11	8	7	12	10	8	6	6			
10	7	6	10	9	6	5	6			
9	6	5	9	8	5	4	5			
8	5	4	8	7	4	3	4			
7	4	3	7	6	2	1	3			
6	3	2	6	5	1	0	3			
5	2	1	5	4	0	0	2			
4	1	1	4	3	0	0	2			
3	1	1	3	2	0	0	1			
2	1	1	3	0	0	0	1			
1	0		3	0	0	0	1			
Number of items										
122	85	85	102	95	112	90	60			

Table 21—Grade 6: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

MAT 1970 Inter-Form A Heating	CAT 1970 Level 4 Form A Comprehension	CTBS 1968 Level 4 Form A Vocabulary	GMT 1964 Series IM Comprehension	ITBS 1971 Level 12 Form 5 Vocabulary	SAT 1964 Inter-Form W Vocabulary Meaning	SRA ACH 1971 Green Level Form A Vocabulary	STEP II 1969 Level 4 Form A Part I	Equivalent raw score	
								Raw score	Number of items
40	38	39	49	44	46	42	30	40	40
49	36	37	47	42	44	41	30	48	40
48	35	36	46	41	42	40	29	48	40
47	33	34	44	39	41	39	24	48	40
46	32	33	43	37	39	38	28	48	40
45	31	31	42	36	38	37	28	48	40
44	29	30	41	35	36	36	27	48	40
43	28	28	40	33	35	35	27	48	40
42	27	27	39	32	33	34	26	48	40
41	27	26	38	31	32	33	26	48	40
40	26	25	36	30	31	31	26	48	40
39	25	24	37	29	29	30	25	48	40
38	24	23	36	28	28	29	25	48	40
37	23	22	36	27	27	28	24	48	40
36	22	21	35	26	26	27	24	48	40
35	21	20	34	25	25	26	24	48	40
34	21	20	34	24	24	25	23	48	40
33	20	19	33	23	23	24	23	48	40
32	19	18	33	22	22	23	22	48	40
31	18	17	32	22	21	22	22	48	40
30	17	17	31	21	20	21	21	48	40
29	17	16	31	20	20	20	21	48	40
28	16	15	30	19	19	19	20	48	40
27	15	15	29	18	18	18	20	48	40
26	15	14	29	17	17	17	19	48	40
25	14	13	28	17	17	17	19	48	40
24	13	13	27	16	16	16	18	48	40
23	13	12	27	16	15	15	18	48	40
22	12	12	26	15	15	14	17	48	40
21	12	11	25	15	14	14	16	48	40
20	11	11	24	14	14	13	16	48	40
19	11	10	23	13	13	12	15	48	40
18	10	10	23	13	12	12	14	48	40
17	10	9	21	12	12	11	13	48	40
16	9	9	20	12	11	11	12	48	40
15	8	8	19	11	10	10	12	48	40
14	8	8	17	10	9	9	10	48	40
13	7	7	16	10	9	9	10	48	40
12	6	7	15	9	8	8	9	48	40
11	6	6	13	8	7	8	8	48	40
10	5	5	12	7	6	7	7	48	40
9	4	5	11	6	6	6	6	48	40
8	3	3	10	6	5	6	6	48	40
7	3	3	9	5	4	5	5	48	40
6	2	3	8	5	4	4	4	48	40
5	2	3	7	4	3	3	4	48	40
4	2	2	6	4	3	3	3	48	40
3	1	2	5	3	3	3	2	48	40
2	1	1	4	3	2	2	2	48	40
1	0	1	3	2	1	1	1	48	40
Number of items	40	40	50	46	48	42	30	48	40

READING COMPREHENSION

MAT 1970 Inter-Form A Heating	CAT 1970 Level 4 Form A Comprehension	CTBS 1968 Level 4 Form A Comprehension	GMT 1964 Series IM Comprehension	ITBS 1971 Level 12 Form 5 Comprehension	SAT 1964 Inter-Form W Paragraph Meaning	SRA ACH 1971 Green Level Form A Reading	STEP II 1969 Level 4 Form A Part 2	Equivalent raw score	
								Raw score	Number of items
45	43	44	57	74	63	48	30	45	45
44	41	42	52	68	61	47	30	45	45
43	39	40	52	65	59	46	29	45	45
42	36	39	51	61	57	45	28	45	45
41	35	37	50	58	56	43	28	45	45
40	33	36	49	55	54	42	27	45	45
39	31	34	48	52	51	40	26	45	45
38	29	33	48	50	49	38	26	45	45
37	28	32	47	47	47	37	25	45	45
36	27	31	46	44	45	35	24	45	45
35	25	30	45	47	44	34	24	45	45
34	24	29	44	41	42	32	23	45	45
33	23	28	43	39	40	31	22	45	45
32	23	27	43	37	39	29	21	45	45
31	22	26	42	36	37	28	21	45	45
30	21	25	41	34	36	27	20	45	45
29	20	24	40	32	34	25	19	45	45
28	19	23	39	31	33	24	18	45	45
27	19	22	38	30	32	23	18	45	45
26	18	21	37	28	30	22	17	45	45
25	17	20	36	27	29	21	16	45	45
24	17	19	35	26	28	20	16	45	45
23	16	19	34	25	27	19	15	45	45
22	16	18	33	24	26	18	14	45	45
21	15	17	32	23	25	17	14	45	45
20	15	16	30	22	24	16	13	45	45
19	14	16	29	22	23	16	12	45	45
18	14	15	27	21	22	15	12	45	45
17	13	14	26	20	20	14	11	45	45
16	13	14	24	19	20	14	10	45	45
15	12	13	22	19	19	13	10	45	45
14	12	12	20	18	18	12	9	45	45
13	11	11	19	17	17	11	8	45	45
12	11	11	17	16	16	11	8	45	45
11	10	10	15	15	14	10	7	45	45
10	9	9	13	14	13	9	6	45	45
9	9	8	11	13	12	8	5	45	45
8	8	8	10	11	11	7	5	45	45
7	7	7	8	9	9	6	4	45	45
6	6	6	7	7	8	5	3	45	45
5	5	5	6	6	6	4	3	45	45
4	4	4	5	5	5	3	2	45	45
3	3	3	4	4	4	2	2	45	45
2	3	2	3	2	2	2	1	45	45
1	2	1	1	1	1	1	0	45	45
Number of items	45	45	52	76	64	48	30	45	45

Table 21—Grade 6: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

MAT 1970 Inter- Form F	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form U	GMT 1964 Survey D Form TM	ITBS 1971 Level 12 Form 5	SAT 1971 Inter II Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A	MAT 1970 Inter- Form F	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form U	GMT 1964 Survey D Form TM	ITBS 1971 Level 12 Form 5	SAT 1964 Inter W Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A	Equivalent raw score														
																Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score
95	83	85	102	120	111	92	60	45	29	30	57	39	40	33	32	32														
94	80	82	101	116	108	89	60	44	28	29	56	38	39	37	31	31														
93	77	80	100	112	106	89	59	43	28	29	55	38	39	31	30	30														
92	75	79	99	109	104	88	58	42	27	28	54	37	30	38	37	29														
91	73	77	98	106	102	87	58	41	27	28	53	36	37	30	29	29														
90	71	75	96	104	100	85	58	40	26	27	52	36	36	29	29	29														
89	69	74	95	101	99	84	57	39	26	26	51	35	36	28	28	28														
88	68	72	94	98	97	83	56	38	25	26	50	35	35	28	27	27														
87	66	70	93	96	95	81	56	37	25	25	49	34	34	27	27	27														
86	65	69	92	93	93	80	55	36	24	25	48	33	33	27	26	26														
85	63	67	91	91	91	79	55	35	24	24	47	33	33	26	25	25														
84	62	66	90	89	89	77	54	34	23	24	45	32	32	25	25	25														
83	60	64	89	87	87	76	53	33	23	23	44	32	31	24	24	24														
82	59	63	88	85	85	75	53	32	22	23	43	31	31	24	23	23														
81	57	61	87	82	83	73	52	31	22	22	41	30	30	23	22	22														
80	56	60	86	80	82	71	52	30	21	21	40	29	29	23	22	22														
79	55	59	85	78	80	70	51	29	21	21	38	28	28	22	21	21														
78	54	58	85	77	78	69	51	28	20	20	36	28	28	22	20	20														
77	53	57	84	75	77	68	50	27	20	20	35	28	27	21	19	19														
76	52	56	83	74	75	66	50	26	19	19	33	27	26	20	19	19														
75	51	55	83	72	74	65	49	25	19	18	31	26	25	20	18	18														
74	50	54	82	71	73	64	49	24	18	18	30	25	24	19	17	17														
73	49	53	81	70	71	63	48	23	17	17	28	24	23	18	16	16														
72	48	52	80	68	70	61	48	22	17	16	26	23	22	17	15	15														
71	47	51	80	67	68	60	47	21	16	16	25	22	20	17	14	14														
70	46	50	79	65	67	59	46	20	15	15	23	21	19	16	13	13														
69	45	49	78	64	65	58	46	19	15	15	22	20	18	15	13	13														
68	45	48	77	63	64	56	45	18	14	14	21	19	17	14	12	12														
67	44	47	76	61	62	55	45	17	13	13	20	17	16	13	11	11														
66	43	46	76	60	61	54	44	16	12	12	19	16	15	12	11	11														
65	42	45	75	59	60	53	43	15	12	11	17	15	14	11	10	10														
64	41	44	74	58	59	51	43	14	11	11	16	14	12	10	9	9														
63	41	44	74	56	58	50	42	13	10	10	15	13	11	9	8	8														
62	40	43	73	55	56	49	41	12	9	9	14	13	10	8	7	7														
61	39	42	72	54	55	48	41	11	8	8	12	12	9	7	6	6														
60	38	41	71	53	54	47	40	10	7	7	11	11	7	6	5	5														
59	38	40	70	52	53	46	40	9	6	6	10	10	6	5	4	4														
58	37	39	69	51	52	45	39	8	5	5	9	9	5	4	4	4														
57	36	38	69	50	51	44	38	7	4	4	7	8	4	3	3	3														
56	36	37	68	48	50	43	38	6	4	3	6	7	2	2	2	2														
55	35	37	67	47	49	42	37	5	3	2	5	6	1	1	1	1														
54	34	36	66	46	48	41	37	4	3	2	4	5	0	0	0	0														
53	34	35	65	46	47	40	36	3	2	1	4	4	0	0	0	0														
52	33	34	64	45	46	39	36	2	1	1	4	3	0	0	0	0														
51	32	34	63	44	45	38	35	1	1	1	4	3	0	0	0	0														
50	32	33	63	43	44	38	35	1	1	1	4	3	0	0	0	0														
49	31	32	63	43	44	37	34	1	1	1	4	3	0	0	0	0														
48	30	32	61	42	44	36	34	1	1	1	4	3	0	0	0	0														
47	30	31	59	40	42	35	33	1	1	1	4	3	0	0	0	0														
46	29	30	58	40	41	34	32	1	1	1	4	3	0	0	0	0														
								Number of items	85	85	102	122	112	90	60	60														
								95																						

Table 22--Grade 6: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY							
SAT 1964	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SRA ACH 1971	STEP II 1969
Form A Meaning	Form 4 Form 3 Form 2 Form 1	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score
48	40	40	50	40	50	42	30
47	38	40	50	45	50	42	30
46	38	39	49	44	50	42	30
45	37	38	48	43	50	42	30
44	36	38	47	42	49	41	36
43	35	37	46	41	49	41	30
42	34	36	45	40	48	40	29
41	33	34	44	39	47	39	29
40	32	33	44	38	47	39	29
39	32	32	43	37	46	38	28
38	31	32	42	36	45	37	28
37	30	31	42	35	45	37	28
36	29	30	41	35	44	36	27
35	29	29	40	34	43	35	27
34	28	28	40	33	43	34	27
33	27	27	39	32	42	34	26
32	27	26	38	31	41	33	26
31	26	26	38	30	40	32	26
30	25	25	37	30	40	31	25
29	25	24	37	29	39	30	25
28	24	23	36	28	38	29	25
27	23	22	36	27	37	28	24
26	22	21	35	26	36	27	24
25	22	21	35	26	36	26	24
24	21	20	34	25	35	25	23
23	20	19	33	24	34	24	23
22	19	18	33	23	33	23	22
21	18	17	32	22	32	22	22
20	17	16	31	21	30	21	21
19	16	15	30	19	28	19	21
18	15	14	29	18	27	18	20
17	14	13	28	17	26	17	19
16	13	12	27	16	24	16	18
15	12	11	26	15	23	15	17
14	11	10	25	14	21	14	16
13	10	10	24	13	19	12	15
12	10	9	22	13	18	11	14
11	9	8	20	12	16	10	13
10	8	7	19	11	15	9	11
9	7	6	17	10	14	9	10
8	6	5	15	9	12	8	9
7	5	4	13	8	11	7	8
6	4	3	12	7	10	6	7
5	3	2	10	6	9	5	6
4	3	2	9	5	7	4	5
3	2	1	7	4	5	3	3
2	1	1	5	3	2	2	2
1	0	0	3	2	1	1	1
48	40	40	50	46	50	42	30

READING COMPREHENSION							
SAT 1964	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SRA ACH 1971	STEP II 1969
Form W Paragraph Meaning	Form 4 Form 3 Form 2 Form 1	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4	Form 1 Form 2 Form 3 Form 4
Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score	Raw score
64	44	45	52	75	45	48	30
63	43	44	52	73	45	48	30
62	42	43	52	71	45	48	30
61	41	42	52	69	44	47	30
60	40	41	52	67	44	47	30
59	38	40	51	65	43	46	29
58	37	39	51	63	42	45	29
57	36	38	51	61	42	44	28
56	35	38	50	59	41	44	28
55	34	37	50	58	41	43	28
54	33	36	49	56	40	42	27
53	32	36	48	55	40	41	27
52	31	35	49	53	39	41	27
51	31	34	48	52	39	40	26
50	30	34	48	51	38	39	26
49	29	33	48	49	38	38	26
48	28	32	47	48	38	38	25
47	28	32	47	47	37	37	25
46	27	31	46	45	37	36	25
45	27	31	46	44	36	35	24
44	26	30	45	43	35	34	24
43	25	29	45	42	35	33	24
42	24	29	44	41	34	33	23
41	24	28	44	40	34	32	23
40	23	28	43	39	33	31	22
39	23	27	43	38	32	30	22
38	22	26	42	37	32	29	21
37	22	26	42	36	31	28	21
36	21	25	41	34	30	27	20
35	21	25	41	33	30	26	20
34	20	24	40	32	29	25	19
33	19	23	39	31	28	24	18
32	19	22	39	30	27	23	18
31	18	22	38	29	27	23	18
30	18	21	37	28	26	22	17
29	17	20	36	27	25	21	16
28	17	19	35	26	24	20	16
27	16	18	34	25	23	19	15
26	16	18	33	24	22	18	14
25	16	17	32	23	21	17	14
24	15	17	31	22	20	16	13
23	15	16	29	21	19	15	13
22	14	15	28	20	18	14	12
21	14	14	27	19	17	13	11
20	13	13	26	18	16	12	10
19	12	12	25	17	15	11	9
18	11	11	24	16	14	10	8
17	10	10	23	15	13	9	7
16	9	9	22	14	12	8	6
15	8	8	21	13	11	7	5
14	7	7	20	12	10	6	4
13	6	6	19	11	9	5	3
12	5	5	18	10	8	4	2
11	4	4	17	9	7	3	1
10	3	3	16	8	6	2	1
9	2	2	15	7	5	1	0
8	1	1	14	6	4	0	0
7	0	0	13	5	3	0	0
6	0	0	12	4	2	0	0
5	0	0	11	3	1	0	0
4	0	0	10	2	0	0	0
3	0	0	9	1	0	0	0
2	0	0	8	0	0	0	0
1	0	0	7	0	0	0	0
48	40	40	50	46	50	42	30



Table 22—Grade 6: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING									
SAT 1964 Form W Form A	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form 3	GMT 1964 Survey D Form 1W	ITBS 1971 Level 12 Form 5	MAT 1970 Level 5 Form F	SRA ACH 1971 Green Level Form F	STEP II 1969 Level 4 Form A	Equivalent raw score	
								Raw score	Equivalent raw score
112	84	85	102	122	95	90	60	57	40
111	83	85	102	120	95	90	60	56	40
110	82	84	102	119	95	90	60	55	39
109	81	83	101	117	94	90	60	54	38
108	80	82	101	115	94	89	60	53	38
107	79	81	100	114	94	89	60	52	37
106	78	80	100	112	93	88	59	51	36
105	78	80	100	111	93	88	59	50	36
104	75	79	99	109	92	88	59	49	37
103	74	78	98	108	92	87	59	48	36
102	75	77	98	107	91	87	58	47	35
101	72	76	97	105	91	86	58	46	34
100	71	75	96	104	90	85	57	45	33
99	70	74	96	102	89	84	57	44	32
98	69	73	95	100	89	84	57	43	31
97	68	72	94	99	88	83	56	42	30
96	67	71	94	97	88	82	56	41	29
95	66	70	93	96	87	81	56	40	28
94	65	69	93	95	87	81	55	39	27
93	65	69	92	93	86	80	55	38	26
92	64	68	92	92	86	79	55	37	25
91	63	67	91	91	85	79	55	36	24
90	62	66	91	90	85	78	54	35	23
89	62	66	90	89	84	77	54	34	22
88	61	65	90	88	84	77	54	33	21
87	60	64	89	86	83	76	53	32	20
86	59	63	89	85	82	75	53	31	19
85	59	63	88	84	82	74	53	30	18
84	58	62	88	83	81	74	53	29	17
83	57	61	87	82	81	73	52	28	16
82	56	60	87	81	80	72	52	27	15
81	56	60	86	80	80	71	52	26	14
80	55	59	86	78	79	70	51	25	13
79	54	58	85	77	78	69	51	24	12
78	53	58	85	76	78	69	51	23	11
77	53	57	84	75	77	68	50	22	10
76	52	56	84	74	76	67	50	21	9
75	51	56	83	73	76	66	49	20	8
74	51	55	83	72	75	65	49	19	7
73	50	54	82	71	74	64	49	18	6
72	50	54	82	70	74	64	48	17	5
71	49	53	81	69	73	63	48	16	4
70	48	52	81	69	72	62	48	15	3
69	48	52	80	68	72	61	47	14	2
68	47	51	80	67	71	60	47	13	1
67	47	50	79	66	70	59	47	12	0
66	46	49	78	65	70	58	46	11	0
65	45	49	78	64	69	57	46	10	0
64	45	48	77	63	68	56	45	9	0
63	44	48	77	62	68	56	45	8	0
62	44	47	76	61	67	55	44	7	0
61	43	46	76	60	66	54	44	6	0
60	42	45	75	59	65	53	43	5	0
59	42	45	74	58	64	52	43	4	0
58	41	44	74	57	63	51	42	3	0

Table 22—Grade 6: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING										
SAT 1964	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SRA ACH 1971	STEP II 1969			
Other II Form W	Level 4 Form A	Level 3 Form D	Subtest IV Form TW	Level 12 Form S	Other Form I	Other Level Form F	Level 4 Form A			
Raw score	Equivalent raw score									
2	4	3	6	7	6	1	2			
1	1	2	5	6	5	1	2			
112	85	85	102	122	95	90	60			
Number of items										







Table 24--Grade 6: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

STEP II 1969	CAT 1970	CTES 1948	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971
Level 4 Form A Part 1	Level 4 Form A Vocabulary	Level 1 Form G Vocabulary	Survey D Form IM Vocabulary	Level 12 Form 5 Vocabulary	Inter Form F Knowledge	Inter II Form W Meaning	Green Level Form E Vocabulary
Raw score	Equivalent raw score						
30	36	38	47	43	49	44	41
29	34	35	45	40	47	41	41
28	31	32	42	37	46	38	38
27	29	29	40	34	43	35	35
26	26	26	38	31	41	32	33
25	24	24	37	29	39	29	30
24	22	21	35	26	36	26	27
23	21	13	34	24	34	24	25
22	19	18	32	22	32	22	23
21	17	16	31	20	30	20	20
20	16	15	30	19	28	18	19
19	14	14	28	17	26	17	17
18	13	13	27	16	24	16	16
17	12	12	26	15	22	15	14
16	11	11	25	14	21	14	13
15	11	10	24	13	19	13	12
14	10	10	22	12	18	12	12
13	9	9	21	11	17	11	11
12	8	9	19	10	16	11	10
11	8	8	18	11	14	10	10
10	7	7	16	10	13	9	9
9	6	7	15	9	12	8	8
8	6	6	13	8	11	7	7
7	5	5	12	7	10	6	7
6	4	4	11	6	9	5	6
5	3	4	9	5	7	4	5
4	2	3	8	4	6	3	4
3	2	2	6	4	4	3	3
2	1	1	5	3	3	2	2
1	0	1	3	2	1	1	1
Number of items 30	40	40	50	46	50	48	42

READING COMPREHENSION

STEP II 1969	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971
Level 4 Form A Part 2	Level 4 Form A Comprehension	Level 3 Form O Comprehension	Survey D Form IM Comprehension	Level 12 Form 5 Reading Comprehension	Inter Form F Reading	Inter II Form W Paragraph Meaning	Green Level Form E Reading
Raw score	Equivalent raw score						
30	41	42	52	69	44	61	47
29	38	40	51	64	43	59	46
28	35	38	50	60	42	57	44
27	33	36	49	55	40	54	42
26	30	34	48	51	39	50	39
25	28	32	47	47	37	47	37
24	26	30	46	43	36	44	35
23	24	29	44	41	34	42	32
22	23	27	43	38	33	39	30
21	22	26	42	36	31	37	28
20	21	25	41	34	30	36	27
19	20	24	40	32	29	34	25
18	19	22	39	30	27	32	23
17	18	21	37	28	26	30	22
16	17	20	36	27	25	29	20
15	16	19	34	25	23	27	19
14	15	18	32	24	22	25	17
13	14	16	30	22	20	24	16
12	14	15	28	21	19	22	15
11	13	1	25	20	17	21	14
10	12	13	23	19	15	19	13
9	12	12	20	18	14	18	12
8	11	11	18	16	13	16	11
7	10	10	15	15	11	15	10
6	9	9	13	14	10	13	9
5	8	8	11	12	9	11	8
4	7	7	9	10	7	10	6
3	6	5	7	7	6	7	5
2	4	4	4	5	4	5	3
1	3	2	2	3	2	2	2
Number of items 30	45	45	52	76	45	64	43

Table 24—Grade 6: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

STEP II 1969 Level 4 Form A	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form 2	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter II Form W	SRA ACH 1971 Green Level Form E	Equivalent raw score							
								Raw score	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form 2	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter II Form W	SRA ACH 1971 Green Level Form E
60	81	83	101	117	94	109	90	25	24	24	46	33	35	33	26
58	76	79	99	110	92	105	88	24	23	23	44	32	33	31	25
58	74	77	98	106	91	102	86	22	22	22	43	31	32	30	24
57	70	74	96	102	89	99	85	22	21	21	38	29	29	28	22
56	67	71	94	98	88	96	82	21	20	20	36	28	27	26	22
55	64	68	92	93	86	93	80	20	19	19	34	27	26	25	20
55	62	66	90	89	84	89	77	19	18	18	32	26	25	24	19
53	59	63	89	85	82	86	75	18	17	17	30	25	24	23	18
52	57	61	87	82	81	83	72	17	16	16	28	24	23	22	17
51	55	59	85	78	79	80	70	16	15	15	26	23	22	21	16
50	52	57	84	75	77	77	67	15	14	14	24	22	21	20	15
49	51	55	83	72	75	74	65	14	13	13	22	21	20	19	14
48	49	53	81	70	73	71	63	13	12	12	21	20	19	18	13
47	47	51	80	67	71	68	60	12	11	11	19	18	17	16	11
46	46	49	78	65	69	66	58	11	10	10	17	17	16	15	10
45	44	48	77	62	68	63	56	10	9	9	15	15	14	13	9
44	43	46	76	60	66	61	54	9	8	8	14	14	13	12	8
43	42	45	75	58	65	59	52	8	7	7	13	13	12	11	7
42	41	43	73	56	63	58	50	7	6	6	11	11	10	9	6
41	39	42	72	54	61	56	48	6	5	5	10	10	9	8	5
40	38	40	71	52	60	54	47	5	4	4	9	9	8	7	4
39	37	39	69	51	58	52	45	4	3	3	8	8	7	6	3
38	36	38	68	49	56	50	43	3	2	2	7	7	6	5	3
37	34	36	67	47	55	48	41	2	1	1	6	6	5	4	2
36	33	35	65	45	53	47	40	1	1	1	5	5	4	3	2
35	32	34	63	44	51	45	38	1	1	1	4	4	3	2	1
34	31	32	62	42	49	44	36	1	1	1	3	3	2	1	1
33	30	31	60	41	48	42	35	1	1	1	2	2	1	1	1
32	29	30	58	40	46	41	34	1	1	1	1	1	1	1	1
31	28	29	57	38	44	39	32	1	1	1	1	1	1	1	1
30	27	28	55	37	42	38	31	1	1	1	1	1	1	1	1
29	27	27	53	36	41	37	30	1	1	1	1	1	1	1	1
28	26	27	51	35	39	36	29	1	1	1	1	1	1	1	1
28	26	26	50	34	38	35	28	1	1	1	1	1	1	1	1
27	25	26	50	34	38	35	28	1	1	1	1	1	1	1	1
26	24	25	48	33	36	33	27	1	1	1	1	1	1	1	1
Number of items	60	RF	85	102	95	112	90								

71/82

Table 25 - Grade 4. Individual score norms

Raw Score	VOCABULARY						READING COMPREHENSION									
	CAT 1970	CTBS 1968	GMI 1964	ITBS 1971	MAT 1970	SAI 1964	SRA ACH 1971	STEP II 1969	CAT 1970	CTBS 1968	GMI 1964	ITBS 1971	MAT 1970	SAI 1964	SRA ACH 1971	STEP II 1969
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																
62																
63																
64																
65																
66																
67																
68																
69																
70																
71																
72																
73																
74																
75																
76																
77																
78																
79																
80																
81																
82																
83																
84																
85																
86																
87																
88																
89																
90																
91																
92																
93																
94																
95																
96																
97																
98																
99																
100																

Percentile Rank - Vocabulary

Percentile Rank - Reading

Table 25--Grade 4: Individual score norms (continued)

READING COMPREHENSION												
CAT	CTBS	GMT	ITBS	MAT	SAT	SRA ACH	STEP II					
1970	1968	1964	1971	1970	1964	1971	1969					
Level 3	Level 2	Category D	Level 10	Elementary	Grade 10	Grade 10	Grade 10					
Composite	Composite	Composite	Reading	Reading	Reading	Reading	Reading					
Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite					
9	3	4	1	2	1	3	21					
8	2	3	1	2	1	2	16					
7	1	2	1	1	1	1	11					
6	1	1	1	1	1	1	7					
5	1	1	1	1	1	1	4					
4	1	1	1	1	1	1	2					
3	1	1	1	1	1	1	1					
2	1	1	1	1	1	1	1					
1	1	1	1	1	1	1	1					
0	1	1	1	1	1	1	1					

Table 25—Grade 4: Individual score norms (continued)

TOTAL READING

Raw score	Percentile rank, statewide											
	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	SAT 1964	SRA ACH 1971	STEP II 1969	
	Level 1 Form A	Level 2 Form B	Survey 2 Form D	Level 10 Form 5	Elementary Form F	Level 3 Form A	Level 4 Form C	Level 4 Form A	Level 4 Form W	Level 4 Form F	Level 4 Form A	
100				99*					62	6	98	9
105				99*					58	6	95	
104				99*					57	6	94	8
103				99*					55	5	93	8
102				99*					53	5	91	
101				99*					52	5	89	
100				99*					50	5	88	7
99				99*					46	5	86	7
98				99*					44	5	84	7
97				99*					44	5	82	7
96				99*					42	4	80	7
95				99*					40	4	77	7
94				99*					37	4	75	7
93				99*					36	4	72	7
92				99*					35	4	70	6
91				99*					34	4	67	6
90				99*					33	4	64	6
89				99*					32	4	61	6
88				99*					31	4	59	6
87				99*					29	4	56	6
86				99*					28	4	53	6
85				99*					27	4	50	5
84				99*					26	4	47	5
83				99*					25	4	44	5
82				99*					24	4	41	5
81				99*					23	4	38	5
80				99*					22	4	35	5
79				99*					21	4	32	5
78				99*					20	4	29	5
77				99*					19	4	26	5
76				99*					18	4	23	5
75				99*					17	4	20	5
74				99*					16	4	17	5
73				99*					15	4	14	5
72				99*					14	4	11	5
71				99*					13	4	8	5
70				99*					12	4	5	5
69				99*					11	4	2	5
68				99*					10	4	0	5
67				99*					9	4		5
66				99*					8	4		5
65				99*					7	4		5
64				99*					6	4		5
63				99*					5	4		5
62				99*					4	4		5
61				99*					3	4		5
60				99*					2	4		5
59				99*					1	4		5
58				99*					0	4		5
57				99*						4		5
56				99*						3		5
55				99*						2		5
54				99*						1		5

Table 26--Grade 5: Individual score norms

Raw Score	VOCABULARY						READING COMPREHENSION									
	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
52			104		98							99				
48			99		99							99				
47			99		99							99				
46			99		99							99				
45			99		99							99				
44			96		93							99				
43			97		97							99				
42			95		99							99				
41			93		99							99				
39	99	99	99		99							99				
38	94	95	88		96							99				
37	91	92	81		96							99				
36	87	87	76		94							99				
35	83	82	72		94							99				
34	79	77	68		92							99				
33	75	72	65		91							99				
32	71	66	62		89							99				
31	67	61	58		87							99				
30	63	56	52		85							99				
29	59	51	46		83							99				
28	55	47	37		81							99				
27	51	43	33		79							99				
26	47	39	29		77							99				
25	43	36	26		74							99				
24	40	32	23		71							99				
23	36	28	20		68							99				
22	32	25	18		65							99				
21	29	23	16		62							99				
20	26	20	13		58							99				
19	24	19	12		55							99				
18	21	16	10		52							99				
17	18	14	8		49							99				
16	16	12	7		46							99				
15	13	10	6		42							99				
14	11	9	5		38							99				
13	9	7	4		33							99				
12	8	6	3		30							99				
11	6	5	3		27							99				
10	5	4	3		24							99				
9	3	3	2		20							99				
8	2	2	2		18							99				
7	1	1	1		15							99				
6	1	1	1		13							99				
5	1	1	1		11							99				
4	1	1	1		9							99				
3	1	1	1		7							99				
2	1	1	1		5							99				
1	1	1	1		3							99				

Percentile rank

Raw Score

Percentile rank

Raw Score





Table 26—Grade 5: Individual score norms (continued)

READING COMPREHENSION									
CAT 1970 Level 3 Form 2 Comprehension Response	CTBS 1968 Level 3 Form 2 Comprehension Response	GMT 1964 Form 10 Comprehension Response	ITBS 1971 Level 3 Form 2 Comprehension Response	MAT 1970 Level 3 Form 2 Comprehension Response	SAT 1964 Form 2 Comprehension Response	SRA ACH 1971 Level 3 Form 2 Comprehension Response	STEP II 1969 Level 3 Form 2 Comprehension Response		
14	9	7	3	15	8	10	39		
13	7	2	2	17	6	8	34		
12	6	2	2	19	4	2	29		
11	4	1	1	7	3	4	22		
10	3	1	1	5	2	3	18		
9	2	1	1	3	2	2	14		
8	1	1	1	2	1	1	10		
7	1	1	1	1	1	1	6		
6	1	1	1	1	1	1	4		
5	1	1	1	1	1	1	2		
4	1	1	1	1	1	1	1		
3	1	1	1	1	1	1	1		
2	1	1	1	1	1	1	1		
1	1	1	1	1	1	1	1		
0	1	1	1	1	1	1	1		

Percentile rank norms

Table 26—Grade 5: Individual score norms (continued)

TOTAL READING

Raw Score	Percentage Rank Standard							Raw Score	Percentage Rank Standard						
	CAT 1970	CTBS 1968	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	CAT 1970		CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
111							99								
110							99								
109							99								
108							99								
107							99								
106							99								
105							99								
104							99								
103							99								
102							99								
101							99								
100							99								
99							99								
98							99								
97							99								
96							99								
95							99								
94							99								
93							99								
92							99								
91							99								
90							99								
89							99								
88							99								
87							99								
86							99								
85							99								
84							99								
83							99								
82							99								
81							99								
80							99								
79							99								
78							99								
77							99								
76							99								
75							99								
74							99								
73							99								
72							99								
71							99								
70							99								
69							99								
68							99								
67							99								
66							99								
65							99								
64							99								
63							99								
62							99								
61							99								
60							99								
59							99								

Table 27-Grade 6: Individual score norms

VOCABULARY

Raw score	Percentile Rank Status														
	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
70															
69															
68															
67															
66															
65															
64															
63															
62															
61															
60															
59															
58															
57															
56															
55															
54															
53															
52															
51															
50															
49															
48															
47															
46															
45															
44															
43															
42															
41															
40															
39															
38															
37															
36															
35															
34															
33															
32															
31															
30															
29															
28															
27															
26															
25															
24															
23															
22															
21															
20															
19															
18															
17															
16															
15															
14															
13															
12															
11															
10															
9															
8															
7															
6															
5															
4															
3															
2															
1															

READING COMPREHENSION

Raw score	Percentile Rank Status														
	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
70															
69															
68															
67															
66															
65															
64															
63															
62															
61															
60															
59															
58															
57															
56															
55															
54															
53															
52															
51															
50															
49															
48															
47															
46															
45															
44															
43															
42															
41															
40															
39															
38															
37															
36															
35															
34															
33															
32															
31															
30															
29															
28															
27															
26															
25															
24															
23															
22															
21															
20															
19															
18															
17															
16															
15															

Table 27 --Grade 6: Individual score norms (continued)

READING COMPREHENSION									
	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SHA ACH 1971	STEP II 1969	
Raw score									
14	3	14	3	3	9	4	14	36	4
13	3	11	3	2	7	3	11	22	4
12	3	8	2	2	5	2	8	18	3
11	2	6	2	1	4	1	6	15	3
10	4	4	1	1	3	1	5	11	3
9	3	3	1	1	2	1	3	8	3
8	1	1	1	1	1	1	2	6	2
7	1	1	1	1	1	1	1	4	1
6	1	1	1	1	1	1	1	3	1
5	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1

Percentile rank scale

Table 27 - Grade 6: Individual score norms (continued)

TOTAL READING

Raw Score	Percentile Rank Status						Percentile Rank Status									
	CAT 1970	CTBS 1968	GMF 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	CAT 1970	CTBS 1968	GMF 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969
86	85	80	7	53	42	5	15	6								
85	84	79		51	41	5	14	6								
84	83	78		50	39	5	13	6								
83	82	77		48	38	5	12	6								
82	81	75		46	36	4	11	6								
81	80	73		44	35	4	10	6								
80	79	71		42	34	4	9	6								
79	78	69	6	41	33	4	8	6								
78	77	67		40	32	4	7	6								
77	76	66		39	31	3	6	6								
76	75	65		38	30	3	5	6								
75	74	64		37	29	3	4	6								
74	73	63		36	28	3	3	6								
73	72	62		35	27	3	2	6								
72	71	61		34	26	3	1	6								
71	70	60		33	25	3	0	6								
70	69	59		32	24	3	0	6								
69	68	58		31	23	3	0	6								
68	67	57		30	22	3	0	6								
67	66	56		29	21	3	0	6								
66	65	55		28	20	3	0	6								
65	64	54		27	19	3	0	6								
64	63	53		26	18	3	0	6								
63	62	52		25	17	3	0	6								
62	61	51		24	16	3	0	6								
61	60	50		23	15	3	0	6								
60	59	49		22	14	3	0	6								
59	58	48		21	13	3	0	6								
58	57	47		20	12	3	0	6								
57	56	46		19	11	3	0	6								
56	55	45		18	10	3	0	6								
55	54	44		17	9	3	0	6								
54	53	43		16	8	3	0	6								
53	52	42		15	7	3	0	6								
52	51	41		14	6	3	0	6								
51	50	40		13	5	3	0	6								
50	49	39		12	4	3	0	6								
49	48	38		11	3	3	0	6								
48	47	37		10	2	3	0	6								
47	46	36		9	1	3	0	6								
46	45	35		8	0	3	0	6								
45	44	34		7	0	3	0	6								
44	43	33		6	0	3	0	6								
43	42	32		5	0	3	0	6								
42	41	31		4	0	3	0	6								
41	40	30		3	0	3	0	6								
40	39	29		2	0	3	0	6								
39	38	28		1	0	3	0	6								
38	37	27		0	0	3	0	6								
37	36	26		0	0	3	0	6								
36	35	25		0	0	3	0	6								
35	34	24		0	0	3	0	6								
34	33	23		0	0	3	0	6								
33	32	22		0	0	3	0	6								
32	31	21		0	0	3	0	6								
31	30	20		0	0	3	0	6								
30	29	19		0	0	3	0	6								
29	28	18		0	0	3	0	6								
28	27	17		0	0	3	0	6								
27	26	16		0	0	3	0	6								
26	25	15		0	0	3	0	6								
25	24	14		0	0	3	0	6								
24	23	13		0	0	3	0	6								
23	22	12		0	0	3	0	6								
22	21	11		0	0	3	0	6								
21	20	10		0	0	3	0	6								
20	19	9		0	0	3	0	6								
19	18	8		0	0	3	0	6								
18	17	7		0	0	3	0	6								
17	16	6		0	0	3	0	6								
16	15	5		0	0	3	0	6								
15	14	4		0	0	3	0	6								
14	13	3		0	0	3	0	6								
13	12	2		0	0	3	0	6								
12	11	1		0	0	3	0	6								
11	10	0		0	0	3	0	6								
10	9	0		0	0	3	0	6								
9	8	0		0	0	3	0	6								
8	7	0		0	0	3	0	6								
7	6	0		0	0	3	0	6								
6	5	0		0	0	3	0	6								
5	4	0		0	0	3	0	6								
4	3	0		0	0	3	0	6								
3	2	0		0	0	3	0	6								
2	1	0		0	0	3	0	6								
1	0	0		0	0	3	0	6								
0	0	0		0	0	3	0	6								

Table 28--Comparison of selected Anchor Test Study percentile ranks with publishers' corresponding percentile ranks

Anchor Test Study Percentile Ranks	Comprehension Tests of Basic Skills (CTBS), 1968 Edition						Total Reading Grade
	Publisher's Corresponding Percentile Ranks			Publisher's Corresponding Percentile Ranks			
	Vocabulary	Comprehension		Vocabulary	Comprehension		
	4	5	6	4	5	6	
99	99	99	99	99	99	99	99
95	94	95	96	94	95	96	94
90	88	91	90	87	89	88	85
85	83	85	84	85	83	85	81
80	77	78	79	80	78	79	76
75	74	74	74	75	73	74	72
70	69	70	70	68	69	69	67
65	63	64	65	64	63	65	63
60	58	59	59	58	57	59	56
55	53	55	55	55	55	55	53
50	49	49	51	51	50	51	48
45	45	46	46	46	45	46	44
40	40	41	41	41	41	41	40
35	35	35	36	36	36	36	35
30	30	31	32	32	32	32	31
25	26	26	27	27	26	27	26
20	21	21	21	21	21	21	20
15	17	17	17	17	17	17	16
10	12	12	12	12	12	12	11
5	7	7	7	7	7	7	6
1	1	1	1	1	1	1	1

Reprinted by permission of the publisher, CTB McGraw-Hill, De Monte Research Park, Monterey, CA 93940. CAT 70 Form A and B Copyright © 1970 1971 by McGraw-Hill, All Rights Reserved. Printed in the U.S.A.

Anchor Test Study Percentile Ranks	California Achievement Tests (CAT), 1970 Edition						Total Reading Grade
	Publisher's Corresponding Percentile Ranks			Publisher's Corresponding Percentile Ranks			
	Vocabulary	Comprehension		Vocabulary	Comprehension		
	4	5	6	4	5	6	
99	99	99	99	99	99	99	99
95	94	95	96	94	95	96	94
90	88	91	90	87	89	88	85
85	83	85	84	85	83	85	81
80	77	78	79	80	78	79	76
75	74	74	74	75	73	74	72
70	69	70	70	68	69	69	67
65	63	64	65	64	63	65	63
60	58	59	59	58	57	59	56
55	53	55	55	55	55	55	53
50	49	49	51	51	50	51	48
45	45	46	46	46	45	46	44
40	40	41	41	41	41	41	40
35	35	35	36	36	36	36	35
30	30	31	32	32	32	32	31
25	26	26	27	27	26	27	26
20	21	21	21	21	21	21	20
15	17	17	17	17	17	17	16
10	12	12	12	12	12	12	11
5	7	7	7	7	7	7	6
1	1	1	1	1	1	1	1

Reprinted by permission of the publisher, CTB McGraw-Hill, De Monte Research Park, Monterey, CA 93940. CAT 70 Form A and B Copyright © 1970 1971 by McGraw-Hill, All Rights Reserved. Printed in the U.S.A.

Anchor Test Study Percentile Ranks	Iowa Tests of Basic Skills (ITBS), 1971 Edition						Total Reading Grade
	Publisher's Corresponding Percentile Ranks			Publisher's Corresponding Percentile Ranks			
	Vocabulary	Reading Comprehension		Vocabulary	Reading Comprehension		
	4	5	6	4	5	6	
99	99	99	99	99	99	99	99
95	92	93	92	94	92	92	90
90	87	87	88	88	87	87	85
85	82	82	82	83	81	81	79
80	79	78	75	76	75	74	72
75	75	72	71	70	70	68	66
70	70	66	66	66	65	63	61
65	62	61	59	60	60	59	57
60	55	55	55	55	55	54	52
55	50	49	50	50	50	50	48
50	45	45	46	47	45	45	43
45	41	41	41	41	41	41	40
40	36	36	36	36	36	36	35
35	34	34	34	34	34	34	33
30	29	29	29	29	29	29	28
25	24	24	24	24	24	24	23
20	20	20	20	20	20	20	19
15	14	14	14	14	14	14	13
10	9	9	9	9	9	9	8
5	5	5	5	5	5	5	4
1	1	1	1	1	1	1	1

Reprinted by permission of the publisher, Gates-MacGinitie Reading Tests, Survey D, New York Teachers College Press, City and State Teachers College, Columbia University. Adapted by permission. All rights reserved.

Anchor Test Study Percentile Ranks	Gates-MacGinitie Reading Tests (GMT), 1964 Edition						Total Reading Grade
	Publisher's Corresponding Percentile Ranks			Publisher's Corresponding Percentile Ranks			
	Vocabulary	Reading Comprehension		Vocabulary	Reading Comprehension		
	4	5	6	4	5	6	
99	99	99	99	99	99	99	99
95	94	95	96	92	93	96	96
90	88	91	86	87	90	90	88
85	83	82	85	81	81	84	81
80	79	78	79	74	76	79	75
75	75	72	76	68	70	76	72
70	69	66	69	62	66	69	66
65	64	64	66	58	60	61	60
60	59	58	58	51	55	57	55
55	56	52	55	47	49	52	50
50	52	49	49	41	42	48	46
45	45	44	44	38	39	42	41
40	43	40	40	33	32	36	35
35	35	34	34	27	27	31	30
30	30	32	32	22	24	27	26
25	27	26	26	19	20	21	20
20	22	21	21	16	16	18	17
15	15	14	14	11	12	14	13
10	9	8	8	7	8	9	8
5	5	5	5	4	4	5	4
1	1	1	1	1	1	1	1

Reprinted by permission of the publisher, Gates-MacGinitie Reading Tests, Survey D, New York Teachers College Press, City and State Teachers College, Columbia University. Adapted by permission. All rights reserved.

Table 28--Comparison of selected Anchor Test Study percentile ranks with publishers' corresponding percentile ranks (continued)

Anchor Test Study Percentile Rank	Metropolitan Achievement Tests (MAT), 1970 Edition					
	Publisher's Corresponding Percentile Ranks					
	Word Knowledge	Reading		Total Reading		
	4	5	6	4	5	6
99	99	99	99	99	99	99
95	94	94	95	95	94	95
90	89	89	90	90	89	90
85	84	84	85	85	84	85
80	79	79	80	80	79	80
75	74	74	75	74	74	75
70	69	69	70	69	69	70
65	64	64	65	64	64	65
60	59	59	60	59	59	60
55	54	54	55	54	54	55
50	49	49	50	49	49	50
45	44	44	45	44	44	45
40	39	39	40	39	39	40
35	34	34	35	34	34	35
30	29	29	30	29	29	30
25	24	24	25	24	24	25
20	19	19	20	19	19	20
15	14	14	15	14	14	15
10	9	9	10	9	9	10
5	4	4	5	4	4	5
1	1	1	1	1	1	1

Adapted from Metropolitan Achievement Tests Copyright © 1970 by Harcourt Brace Jovanovich, Inc. Adapted by permission.

Anchor Test Study Percentile Rank	Stanford Achievement Tests (SAT), 1964 Edition					
	Publisher's Corresponding Percentile Ranks					
	Word Meaning	Paragraph Meaning		Paragraph Meaning		
	4	5	6	4	5	6
99	99	99	99	99	99	99
95	94	94	95	94	94	95
90	89	89	90	89	89	90
85	84	84	85	84	84	85
80	79	79	80	79	79	80
75	74	74	75	74	74	75
70	69	69	70	69	69	70
65	64	64	65	64	64	65
60	59	59	60	59	59	60
55	54	54	55	54	54	55
50	49	49	50	49	49	50
45	44	44	45	44	44	45
40	39	39	40	39	39	40
35	34	34	35	34	34	35
30	29	29	30	29	29	30
25	24	24	25	24	24	25
20	19	19	20	19	19	20
15	14	14	15	14	14	15
10	9	9	10	9	9	10
5	4	4	5	4	4	5
1	1	1	1	1	1	1

Adapted from Stanford Achievement Tests Copyright © 1964 by Harcourt Brace Jovanovich, Inc. Adapted by permission.

Anchor Test Study Percentile Rank	SRA Achievement Series (SRA-ACH), 1971 Edition					
	Publisher's Corresponding Percentile Ranks					
	Vocabulary		Reading		Total Reading	
	4	5	6	4	5	6
99	99	99	99	99	99	99
95	94	94	95	94	94	95
90	89	89	90	89	89	90
85	84	84	85	84	84	85
80	79	79	80	79	79	80
75	74	74	75	74	74	75
70	69	69	70	69	69	70
65	64	64	65	64	64	65
60	59	59	60	59	59	60
55	54	54	55	54	54	55
50	49	49	50	49	49	50
45	44	44	45	44	44	45
40	39	39	40	39	39	40
35	34	34	35	34	34	35
30	29	29	30	29	29	30
25	24	24	25	24	24	25
20	19	19	20	19	19	20
15	14	14	15	14	14	15
10	9	9	10	9	9	10
5	4	4	5	4	4	5
1	1	1	1	1	1	1

Adapted from SRA Achievement Series by Harcourt Brace Jovanovich, Inc. Adapted by permission of the publisher.

Anchor Test Study Percentile Rank	Sequential Tests of Educational Progress, STEP Series II, 1969 Edition					
	Publisher's Corresponding Percentile Ranks					
	Total Reading		Grade 4		Grade 5	
	4	5	4	5	4	5
99	99	99	99	99	99	98
95	94	94	95	94	94	95
90	89	89	90	89	89	90
85	84	84	85	84	84	85
80	79	79	80	79	79	80
75	74	74	75	74	74	75
70	69	69	70	69	69	70
65	64	64	65	64	64	65
60	59	59	60	59	59	60
55	54	54	55	54	54	55
50	49	49	50	49	49	50
45	44	44	45	44	44	45
40	39	39	40	39	39	40
35	34	34	35	34	34	35
30	29	29	30	29	29	30
25	24	24	25	24	24	25
20	19	19	20	19	19	20
15	14	14	15	14	14	15
10	9	9	10	9	9	10
5	4	4	5	4	4	5
1	1	1	1	1	1	1

Adapted from Sequential Tests of Educational Progress, STEP Series II, 1969 Edition. Adapted by permission.

Table 29--Grade 4: School mean norms

Grade	VOCABULARY						READING COMPREHENSION									
	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA-ALM 1971	STEP II 1969	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA-ALM 1971	STEP II 1969
186																
67																
48																
48																
46																
44																
42																
41																
40																
39																
38																
37																
36																
35																
34																
33																
32																
31																
30																
29																
28																
27																
26																
25																
24																
23																
22																
21																
20																
19																
18																
17																
16																
15																
14																
13																
12																
11																
10																
9																
8																
7																
6																
5																
4																
3																
2																
1																



Table 29—Grade 4: School mean norms (continued)

READING COMPREHENSION									
	CAT 1970 Level 4 Comprehension Benchmark	CTBS 1968 Form 2 Comprehension Benchmark	GMT 1964 Subjects 3 Form 1M Comprehension Benchmark	ITBS 1971 Level 10 Form E Reading Comprehension Benchmark	MAT 1970 Lionel Lark Form 4 Reading Benchmark	SAT 1964 Form 1 Form W Paragraph Meaning	SRA/ACH 1971 Basic Level Form E Reading	STEP II 1969 Form 4 Form A Form 2	
Mean raw score	Percentile rank stable								
9	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1

Table 29--Grade 4: School mean norms (continued)

TOTAL READING

Mean raw score	Percentile rank standing															
	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form D	GMT 1964 Survey D Form 1M	ITBS 1971 Level 1D Form 5	MAT 1970 Elementary Form 6	SAT 1964 Level 1 Form W	SRA-ACH 1971 Basic Level Form E	STEP II 1969 Level 4 Form A	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form D	GMT 1964 Survey D Form 1M	ITBS 1971 Level 1D Form 5	MAT 1970 Elementary Form 6	SAT 1964 Level 1 Form W	SRA-ACH 1971 Basic Level Form E	STEP II 1969 Level 4 Form A
106				99												
105				99												
104				99												
103				99												
102			99	99												
101			99	99												
100			99	99												
99			99	99												
98			99	99												
97			99	99												
96			99	99												
95			99	99												
94			99	99												
93			99	99												
92			99	99												
91			99	99												
90			99	99												
89			99	99												
88			99	99												
87			99	99												
86			99	99												
85			99	99												
84			99	99												
83			99	99												
82	99		99	99												
81	99		99	99												
80	99		99	99												
79	99		99	99												
78	99		99	99												
77	99		99	99												
76	99		99	99												
75	99		99	99												
74	99		99	99												
73	99		99	99												
72	99		99	99												
71	99		99	99												
70	99		99	99												
69	99		99	99												
68	99		99	99												
67	99		99	99												
66	99		99	99												
65	99		99	99												
64	99		99	99												
63	99		99	99												
62	99		99	99												
61	99		99	99												
60	99		99	99												
59	99		99	99												
58	99		99	99												
57	98		99	99												
56	97		99	99												
55	96		99	99												
54	94		99	99												
53	91		99	99												

Table 30 Grade 5: School mean norms

Mean Raw Score	VOCABULARY					READING COMPREHENSION										
	GAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SHAACH 1970	STEP II 1969	GAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SHAACH 1970	STEP II 1969
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122
123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123
124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130

Table 30 - Grade 5: School mean norms (continued)

READING COMPREHENSION									
	CAT 1970 Elementary Composite Percentile Rank	CTBS 1968 Elementary Composite Percentile Rank	GMT 1964 Composite Percentile Rank	ITBS 1971 Elementary Composite Percentile Rank	MAT 1970 Elementary Reading Percentile Rank	SAT 1964 Elementary Paragraph Mean	SRA ACH 1971 Elementary Reading Percentile Rank	STEP II 1969 Elementary Reading Percentile Rank	
Mean									
Low									
Score	9	1	1	1	1	1	1	1	
	8	1	1	1	1	1	1	1	
	7	1	1	1	1	1	1	1	
	6	1	1	1	1	1	1	1	
	5	1	1	1	1	1	1	1	
	4	1	1	1	1	1	1	1	
	3	1	1	1	1	1	1	1	
	2	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	
0	1	1	1	1	1	1	1	1	

Percentile Rank Standing

Table 30 - Grade 5: School mean norms (continued)

TOTAL READING

Year	Percentile Rank Station												
	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	SAT 1964	MAT 1970	ITBS 1971		
1968	14	4	14	35	14	6	6	14	6	6	7	14	99
1969	14	5	14	37	14	6	6	14	6	6	7	14	99
1970	14	5	14	37	14	6	6	14	6	6	7	14	99
1971	14	5	14	37	14	6	6	14	6	6	7	14	99
1972	14	5	14	37	14	6	6	14	6	6	7	14	99
1973	14	5	14	37	14	6	6	14	6	6	7	14	99
1974	14	5	14	37	14	6	6	14	6	6	7	14	99
1975	14	5	14	37	14	6	6	14	6	6	7	14	99
1976	14	5	14	37	14	6	6	14	6	6	7	14	99
1977	14	5	14	37	14	6	6	14	6	6	7	14	99
1978	14	5	14	37	14	6	6	14	6	6	7	14	99
1979	14	5	14	37	14	6	6	14	6	6	7	14	99
1980	14	5	14	37	14	6	6	14	6	6	7	14	99
1981	14	5	14	37	14	6	6	14	6	6	7	14	99
1982	14	5	14	37	14	6	6	14	6	6	7	14	99
1983	14	5	14	37	14	6	6	14	6	6	7	14	99
1984	14	5	14	37	14	6	6	14	6	6	7	14	99
1985	14	5	14	37	14	6	6	14	6	6	7	14	99
1986	14	5	14	37	14	6	6	14	6	6	7	14	99
1987	14	5	14	37	14	6	6	14	6	6	7	14	99
1988	14	5	14	37	14	6	6	14	6	6	7	14	99
1989	14	5	14	37	14	6	6	14	6	6	7	14	99
1990	14	5	14	37	14	6	6	14	6	6	7	14	99
1991	14	5	14	37	14	6	6	14	6	6	7	14	99
1992	14	5	14	37	14	6	6	14	6	6	7	14	99
1993	14	5	14	37	14	6	6	14	6	6	7	14	99
1994	14	5	14	37	14	6	6	14	6	6	7	14	99
1995	14	5	14	37	14	6	6	14	6	6	7	14	99
1996	14	5	14	37	14	6	6	14	6	6	7	14	99
1997	14	5	14	37	14	6	6	14	6	6	7	14	99
1998	14	5	14	37	14	6	6	14	6	6	7	14	99
1999	14	5	14	37	14	6	6	14	6	6	7	14	99
2000	14	5	14	37	14	6	6	14	6	6	7	14	99
2001	14	5	14	37	14	6	6	14	6	6	7	14	99
2002	14	5	14	37	14	6	6	14	6	6	7	14	99
2003	14	5	14	37	14	6	6	14	6	6	7	14	99
2004	14	5	14	37	14	6	6	14	6	6	7	14	99
2005	14	5	14	37	14	6	6	14	6	6	7	14	99
2006	14	5	14	37	14	6	6	14	6	6	7	14	99
2007	14	5	14	37	14	6	6	14	6	6	7	14	99
2008	14	5	14	37	14	6	6	14	6	6	7	14	99
2009	14	5	14	37	14	6	6	14	6	6	7	14	99
2010	14	5	14	37	14	6	6	14	6	6	7	14	99
2011	14	5	14	37	14	6	6	14	6	6	7	14	99
2012	14	5	14	37	14	6	6	14	6	6	7	14	99
2013	14	5	14	37	14	6	6	14	6	6	7	14	99
2014	14	5	14	37	14	6	6	14	6	6	7	14	99
2015	14	5	14	37	14	6	6	14	6	6	7	14	99
2016	14	5	14	37	14	6	6	14	6	6	7	14	99
2017	14	5	14	37	14	6	6	14	6	6	7	14	99
2018	14	5	14	37	14	6	6	14	6	6	7	14	99
2019	14	5	14	37	14	6	6	14	6	6	7	14	99
2020	14	5	14	37	14	6	6	14	6	6	7	14	99



Table 31 Grade 6: School mean norms (continued)

Mean Raw Score	READING COMPLETION							STEP II 1969 1969 1969 1969
	CAT 1970 1970 1970 1970 1970	CTBS 1968 1968 1968 1968 1968	GMT 1964 1964 1964 1964 1964	ITBS 1971 1971 1971 1971 1971	MAT 1970 1970 1970 1970 1970	SAT 1964 1964 1964 1964 1964	SRA/ACH 1971 1971 1971 1971 1971	
14	1							
13								
12								
11								
10								
9								
8	1							
7		1						
6			1					
5					1			
4						1		
3							1	
2								1
1								
0								

Percentage rank 50.00

Table 31--Grade 4: School mean norms (continued)

BEST COPY AVAILABLE

TCAL READING

Mean Raw Score	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	SRA ACH 1971	STEP II 1969	Percentile Rank	
																	Low	High
60	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	33	5
61	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	31	5
62	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	28	4
63	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	25	4
64	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	22	4
65	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	19	4
66	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	16	3
67	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	13	3
68	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	10	3
69	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	7	2
70	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	4	2
71	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
72	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
73	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
74	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
75	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
76	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
77	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
78	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
79	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
80	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
81	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
82	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
83	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
84	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
85	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
86	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
87	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
88	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
89	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
90	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
91	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
92	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
93	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
94	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
95	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
96	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
97	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1
100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	1	1

BEST COPY AVAILABLE