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**ABSTRACT**

This pamphlet provides information concerning published mathematics tests in eight broad categories: arithmetic; junior high school; batteries and general listings, K-14; high school, general; algebra; geometry; trigonometry; and college-related. For each test listed, the document provides title, author, publisher, and dates of publication for original and revised forms, grade level, list of test forms, information on the availability of norms, and sources of additional information. A directory of test publishers is provided. Nine agencies offering evaluation services related to testing are listed, and the services offered by each are briefly described. A list of references is included. (SD)

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# mathematics tests AVAILABLE IN THE UNITED STATES

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# Mathematics Tests Available in the United States

**T**HIS PAMPHLET is a revision of a publication of the same name that was first published by the Council in 1959 and revised in 1968 and 1972. In 1972 the mathematics curriculum was fairly stable, the issue of accountability was beginning to assume a prominent role in many school districts, and a number of elementary school programs had been developed with rather detailed behavioral objectives. Today, as we celebrate our 200th birthday, the elementary mathematics curriculum is less stable, accountability remains a very real issue, and interest in behavioral objectives has declined to the point where they are rarely a topic of discussion. In addition, declining test scores in the basic skill areas are making almost daily headlines, and most Public and Private educational institutions have found it necessary to do some fiscal belt-tightening.

The primary purpose of this Pamphlet is to provide a comprehensive listing of mathematics tests available in the United States that may assist educators in meeting their evaluation needs. The types of tests included in this pamphlet are listed in the Contents. Tests covering mathematics from the primary school through the first two years of college are included. A special effort was made to identify tests that might be useful for junior college placement. Publishers should be aware that few tests are available that are sensitive to such placement needs. The section on college-related listings contains a few possibilities, and two programs designed specifically for junior colleges are described under "Related Evaluation Services" on page 28.

No attempt has been made in this edition to include either tests that are designed for a particular text series or tests published outside the United States, although the next edition of this pamphlet is likely to be entitled "Mathematics Tests Available in the United States and Canada." Several new tests have been added to the 1972 listings, and a number of the 1972 listings that are now out of print have been removed. Publishers whose tests appear in this pamphlet were given the opportunity to verify their listings for accuracy and completeness. Although the current listing is intended to be complete, new tests are always being developed. The "Directory of Publishers" on page 27 should be useful in getting information on newly developed tests.

The listing of a test does not constitute an endorsement by the National Council of Teachers of Mathematics. Teachers and curriculum specialists who are interested in a particular test should request a sample copy from the publisher and examine it carefully for relevance to the particular use intended.

Although the primary purpose of the pamphlet is to provide a listing of mathematics tests, the pamphlet also contains a number of descriptions of related evaluation services.

that may be useful to educators. These descriptions and addresses follow the test listings and the "Directory of Publishers."

Information on the selection and use of tests is available in the references cited in the final section of this pamphlet. Included in these are the seven volumes of the Mental Measurements Yearbook series, constituting the major reference work on tests, with comprehensive lists and reviews. When a reference is made to this source in the test listing, it appears immediately below the publisher's name with a roman numeral identifying the volume and an arabic numeral identifying the entry (not the page). Under *American School Arithmetic Readiness Tests*, for example, "V 456" is given after the name of the publisher. This means that a review of, or a reference to, these tests is found in the fifth Yearbook under entry 456.

Information for each test is given in the following order:

- Title
- Authorship
- Grade levels and forms
- Availability of norms
- Publisher
- Reference to additional information
- Original date of publication
- Date of latest revision

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# TESTS

## Arithmetic

### **American School Arithmetic Batteries**

Willis E. Pratt and Robert V. Young

Primary, grades 2-3, intermediate, grades 4-6,  
advanced, grades 7-9, Forms X and Y

Norms

Bobbs-Merrill Company

Not listed

1975

None

### **American School Arithmetic Readiness Test**

Willis E. Pratt, Robert V. Young, and Gilbert L. Betts

Kindergarten and grade 1

Norms

Bobbs-Merrill Company

V. 456

1941

1955

### **The APELL Test (Premath; Available in Spanish)**

Eleanor V. Cochran and James L. Shannon

Ages 3-7

Criterion-referenced and norm-referenced

EdcoDyne

VII, 740

1969

1972

### **Arithmetic (Fundamentals and Reasoning)**

Robert K. Speer and Samuel Smith

Grades 3-6, Forms A and B

Norms

Psychometric Associates

Not listed

1939

1958

### **Arithmetic (Fundamentals and Reasoning)**

Robert K. Speer and Samuel Smith

Grades 6-8, Forms A and B

Norms

Psychometric Associates

VI, 613

1938

1960

### **Basic Arithmetic Skill Evaluation**

Lola J. May and Vernon R. Hood

Grades 1-9

Not given

Media Research Associates

Not given

1972

None

### **Basic Skills in Arithmetic**

William L. Wrinkle, Juanita Saunders, and Elizabeth H.

Kendel

Grades 6-12, Forms A and B

Norms  
Science Research Associates  
III, 335  
1945  
None

**Bobbs-Merrill Arithmetic Achievement Tests**

William E. Kline and Harry J. Baker  
Grades 1-8, Forms A and B  
Norms  
Bobbs-Merrill Company  
VI, 615, VII, 513  
1963  
None

**Buswell-John Diagnostic Test for the Fundamental Processes in Arithmetic**

G. T. Buswell and Lenore John  
Grades 2-8, detailed test, individually administered  
No norms  
Bobbs-Merrill Company  
II, 1456, IV, 413  
1925  
None

**California Achievement Tests, 1957 Edition - Arithmetic**

Ernest W. Tieg and Willis W. Clark  
Lower primary, grades 1-2, and upper primary, grades  
H2-L4, elementary grades 4-6, and junior high, grades  
7-9, Forms W, X, Y, and Z  
Norms  
California Test Bureau, McGraw-Hill  
V, 468, VI, 616  
1957  
1963 Renorming

**Concept Assessment Kit - Conservation**

Marcel L. Goldschimid and Peter M. Bentler  
Ages 4-8  
Norms  
Educational and Industrial Testing Service  
Reviewed in *Journal of Educational Measurement* 6 (Winter  
1969) 263-69 and in *Professional Psychology* 1 (Fall  
1970) 491-93  
1969  
None

**Cooperative Primary Tests: Mathematics**

Not given  
Grades 1 5-2 5, Forms 12A and 12B, grades 1 5-3 9, Forms  
23A and 23B  
Spring norms for grade 1, spring and fall norms for grades 2  
and 3  
Educational Testing Service  
Not listed  
1965  
None

**Diagnosis: An Instructional Aid, Mathematics**

Developed by SRA  
Grades 1-4, Level A, grades 4-6, Level B  
Criterion-referenced, diagnostic tests  
Science Research Associates



Not listed  
Level A, 1973  
Level B, 1972  
None

**Diagnostic Tests and Self-Tests in Arithmetic**

Leo J Brueckner

Grades 3-12 (twenty-three tests for screening basic facts, whole numbers, fractions, decimals, percent, measurement)

No norms

California Test Bureau McGraw-Hill

V, 472

1955

None

**Emporia Primary Arithmetic Test**

Patricia Pease and Merritt W Sanders

Grade 1, Forms IA and IB, first semester, Forms IIA and IIB, second semester

Norms

Emporia Kansas State College

VII, 519

1964

None

**Emporia Arithmetic Tests, Elementary**

Patricia Pease and Merritt W Sanders

Grades 2-3, Forms IA and IB, first semester, Forms IIA and IIB, second semester

Norms

Emporia Kansas State College

VII, 519

1964

None

**Emporia Arithmetic Tests, Intermediate**

Ruth Otterstrom and Merritt W Sanders

Grades 4-6, Forms IA and IB, first semester, Forms IIA and IIB, second semester

Norms

Emporia Kansas State College

VII, 519

1964

None

**ERB Modern Arithmetic Test**

Frederic Bonan et al

Grades 5-6, Form B

No norms

Educational Records Bureau

VII, 518

1969, 1970

None

**Iowa Test of Basic Skills: Test A, Arithmetic Skills**

E F Lindquist and A N Hieronymus, eds

Grades 3-9, Forms 1-4

Norms

Houghton Mifflin Company

V, 16, VI, 13

Forms 1 and 2, 1955, forms 3 and 4, 1971

None

**Iowa Tests of Basic Skills Primary Battery, Test M, Mathematics Skills**

A N Hieronymus, E F Lindquist, and H D Hoover  
Grades 1-3 5, Forms 5 and 6  
Norms  
Houghton Mifflin Company  
Not listed  
1972  
None

**KeyMath Diagnostic Arithmetic Test**

Austin J Connolly, William Nachtman, and E Milo Pritchett  
Preschool through sixth grade, no upper limit for individual remedial use One form  
Norms  
American Guidance Service  
Not listed  
1971  
None

**Mastery: An Evaluation Tool, Mathematics**

Developed by SRA  
Grades 1-8  
Criterion-referenced, objective-based, machine-scorable, customized and catalog tests  
Science Research Associates  
Not listed  
1974 and 1975  
None

**A Mathematics Test for Grades Four, Five, and Six**

Stanley I Le Jeune  
Grades 4-6  
Norms  
Psychometric Affiliates  
VII, 476  
1969  
None

**Metropolitan Achievement Tests: Primary I and Primary II\***

Walter N Durost, Harold H Bixler, J Wayne Wrightstone, George A Prescott, and Irving H Balow  
Primary I, grades 1 5-2 4, Primary II, grades 2 5-3 4  
Norms  
Harcourt Brace Jovanovich  
VII, 14  
1970  
None

\*Note The mathematics test is not available as a separate test

**Metropolitan Arithmetic Tests**

Walter N Durost, Harold H Bixler, Gertrude H Hildreth, Kenneth W Lund, and J Wayne Wrightstone  
Elementary, grades 3-4, Forms A and B, intermediate, grades 5-6, Form A, advanced, grades 7-9, Forms A and C  
Norms  
Harcourt Brace Jovanovich  
VI, 627  
1958  
None

**Prescriptive Mathematics Inventory**

John K. Gessel

Orange Level (grades 4,5), Aqua Level (grades 5,6), Purple Level (grades 6,7), Level C (grades 7-9)

Norms (criterion-referenced diagnostic tests)

California Test Bureau/McGraw-Hill

Not listed

1971

1975

**Public School Achievement Tests: Arithmetic Computation and Arithmetic Reasoning**

Jacob S. Orleans

Grades 3 and 8

Norms

Bobbs-Merrill Company

VI, 606, 612

1928, Manual, 1959

None

**SRA Achievement Series: Arithmetic Subtest**

Louis P. Thorpe, D. Welty Lefever, and Robert A. Naslund

Grades Primary I, Primary II, and 4-9 (multilevel), Forms E and F

Norms

Science Research Associates

VI, 632, VII, 526

Forms E and F, 4-9 (multilevel), Fall 1971, 1-4 (primary), Fall 1972

**Stanford Arithmetic Tests: Intermediate I, Intermediate II, and Advanced**

Truman L. Kelley, Richard Madden, Eric F. Gardner, and Herbert C. Rudman

Grades 4 0-5 4, 5 5-6 9, 7 0-9 9, Forms W and X for all

Norms

Harcourt Brace Jovanovich

VI, 637, VII, 527

1964-1965

None

**Stanford Diagnostic Arithmetic Test, Levels I and II**

Lestie S. Beatty, Richard Madden, and Eric F. Gardner

Grades 2 5-4 5, 4 5-8 5, Forms W and X

Norms

Harcourt Brace Jovanovich

VII, 528

1966

None

**Stanford Early School Achievement Test: Levels I and II\***

Richard Madden and Eric F. Gardner

Level I, grades K 1-1 1, Level II, grades 1 1-1 8

Norms

Harcourt Brace Jovanovich

VII, 28

1969, 1970

None

\*Note: The mathematics test is not available as a separate test

**Tests of Achievement in Basic Skills, TABS-MATH, Level K**  
James C. Young  
Grade Kindergarten, Forms 1 and 2  
Norms  
Educational and Industrial Testing Service  
Not listed  
1974  
None

**Tests of Achievement in Basic Skills, TABS-MATH, Level 1**  
James C. Young  
Grade 1, Forms 1 and 2  
Norms  
Educational and Industrial Testing Service  
Not listed  
1974  
None

**Tests of Achievement in Basic Skills, TABS-MATH, Level 2**  
James C. Young  
Grade 2, Forms 1 and 2  
Norms  
Educational and Industrial Testing Service  
Not listed  
1974  
None

**Tests of Achievement in Basic Skills, TABS-MATH, Level A**  
James C. Young  
Grades 3-4, Forms 1 and 2  
Norms  
Educational and Industrial Testing Service  
Not listed  
1973  
None

**Tests of Achievement in Basic Skills, TABS-MATH, Level B**  
James C. Young  
Grades 4-5, Forms A and B  
Norms  
Educational and Industrial Testing Service  
Not listed  
1971  
None

**Tests of Adult Basic Education (adapted from CAT.57)—  
Arithmetic Test**  
CTB, McGraw-Hill staff  
Forms 1 and 2, Levels D (adapted from junior high level of  
CAT), M (from the elementary level), and E (from the  
upper primary level)  
Norms  
California Test Bureau/McGraw-Hill  
VII, 60  
1967  
None

**A Test of Arithmetic Principles, Elementary Form**  
Ronald C. Welch and Charles W. Edwards, Jr.  
Grades 3-6  
Indiana University  
Ronald C. Welch at Indiana University  
1965  
None

## Junior High School

### **California Survey Series: Survey of Arithmetic Achievement**

Ernest W. Tieg and Willis W. Clark

Grades 7-9

Norms

California Test Bureau/McGraw-Hill

VI, 638

1959

None

### **Cooperative Mathematics Tests: Arithmetic**

Not given

Grades 7-9. Forms A, B, and C

Norms

Educational Testing Service

VI, 607; VII, 515

1962, 1963

None

### **Cooperative Mathematics Tests: Structure of the Number System**

Not given

Grades 7-8. Forms A and B

Norms

Educational Testing Service

VI, 655; VII, 466

1962, 1963

None

### **Emporia Arithmetic Tests, Junior High**

Ilelen Engleson and Merritt W. Sanders

Grades 7-8. Forms IA and IB, first semester; Forms IIA and IIB, second semester

Norms

Emporia Kansas State College

VII, 519

1964

None

### **Mathematics Test (Content Evaluation Series)**

Gilbert Ulmer

Junior high school (grades 7-9)

Norms

Houghton Mifflin Company

VII, 475

1969

None

### **Minimum Essentials for Modern Mathematics**

Ernest Hayes

Grades 6-8. Forms P and Q

Norms

Hayes Educational Test Laboratory

VI, 587

1963

1971

### **Minnesota High School Achievement Examinations: Mathematics**

V. L. Lohmann, ed

Grades 7-9; three forms, one revised each year

Norms  
American Guidance Service  
VI, 577, 582  
1962, 1963  
1970, 1971, 1972

**National Achievement Tests: General Mathematics**

Harvy Eisner  
Grades 7-9, Forms A and B  
Norms  
Psychometric Affiliates  
Not listed  
1942  
1960

**Portland Prognostic Tests for Mathematics**

Ernest Hayes  
Grades 6 S-8.0 and 8 5-9.0, Forms A and B  
Norms  
Hayes Educational Test Laboratory  
VI, 588  
1960  
1971

**Tests of Achievement in Basic Skills, TABS-MATH Level C**

James C. Young  
Grades 7-9, Forms A and B  
Norms  
Educational and Industrial Testing Service  
VII, 492  
1971  
None

**Tests of Achievement in Basic Skills (Mathematics)**

James C. Young and Robert R. Knaapp  
Grades 7-9, Forms 1 and 2  
Criterion referenced  
Educational and Industrial Testing Service  
Not listed  
1971  
None

**Traxler Brief Survey Test for Arithmetic Skills**

Arthur Traxler  
Grades 7-12, Forms A and B  
Norms  
Bobbs-Merrill Company  
III, 336, IV, 409, V, 467  
1947  
1953

## **Batteries and General Listings, K-14**

**Academic Promise Tests: Numerical**

C. K. Bennett, M. C. Bennett, D. M. Clendenen, J. E. Doppelt, J. H. Ricks, Jr., H. C. Seashore, and A. C. Wesman  
Grades 6-9, Forms A and B  
Norms  
The Psychological Corporation  
VI, 766, VII, 672  
1959  
1965

**American Numerical Test**

John J. McCarty  
Junior high through college  
Norms  
Psychometric Associates  
VI, 604  
1962  
None

**Beckmann-Bell Mathematical Competency Test for Enlightened Citizens**

Milton Beckmann and Jack Bell  
None specified  
None  
Mathematical Testing Service  
Lincoln, Nebraska  
Not listed  
1973  
None

**California Achievement Tests, 1970 Edition— Mathematics**

Ernest W. Tieg and Willis W. Clark  
Forms A and B, Levels 1, 2, 3, 4, 5 (grades 1-12)  
Norms  
California Test Bureau, McGraw-Hill  
V, 468, VII, 455  
1957  
1970

**Career Planning Program**

American College Testing Program Staff  
Grades 8-11  
Norms  
Houghton Mifflin Company (see p. 28)  
Not listed  
1974  
None

**Christofferson-Guiler Analytical Survey**

H. S. Christofferson and W. S. Guiler  
Grades 7-12, Forms 3 and 4  
Norms  
Bobbs-Merrill Company  
V, 457  
1930  
1957

**Comprehensive Testing Program**

Committee  
Grades K-12, Form A, Levels 1-5  
Norms  
Educational Records Bureau  
Not listed  
1974  
None

**Comprehensive Tests of Basic Skills— Mathematics Test**

CTB/McGraw-Hill staff  
Forms Q and R, Levels 1 (grades 2-4), 2 (grades 4-6),  
3 (grades 6-8), and 4 (grades 8-12)  
Norms  
California Test Bureau/McGraw-Hill  
VII, 514

1968  
1973 Form S

**Contemporary Mathematics Test**

CTB/McGraw-Hill staff

Lower elementary (grades 3-4), upper elementary (grades 5-6), junior high (grades 7-9), advanced (grades 9-12), algebra (end of first year of study, grades 8-9)

Norms

California Test Bureau/McGraw-Hill

VII, 462, 463, 464, 499

1965

None

**Cornell Class Reasoning Test**

Robert H. Ennis, William L. Gardiner, Richard Morrow, Dieter Paulus, and Lucille Ringel

Grades 4-12, Form X

In *Coop Research Project Report 1680*, ERIC ED003818

Critical Thinking Project, Education Building, University of Illinois, Urbana, Illinois 61801

Not listed

1964

None

**Cornell Conditional Reasoning Test**

Robert H. Ennis, William L. Gardiner, John Guzzetta, Richard Morrow, Dieter Paulus, and Lucille Ringel

Grades 4-12, Form X

In *Coop Research Project Report 1680*, ERIC ED003818

Critical Thinking Project, Education Building, University of Illinois, Urbana, Illinois 61801

Not listed

1964

None

**Cornell Critical Thinking Test, Level X**

Robert H. Ennis and Jason Millman

Grades 7-12

Norms

Critical Thinking Project, Education Building, University of Illinois, Urbana, Illinois 61801

VII, 729

1961

1971

**Cornell Critical Thinking Test, Level Z**

Robert H. Ennis and Jason Millman

Grades 11-12, College

Norms

Critical Thinking Project, Education Building, University of Illinois, Urbana, Illinois 61801

VII, 779

1961

1971

**Differential Aptitude Tests: Numerical Ability**

G. K. Bennett, H. G. Seashore, and A. G. Wesman

Grades 8-12 and adult, Forms S and T

Norms

The Psychological Corporation

VII, 673



1947  
1972

**Iowa Tests of Basic Skills: Test M, Mathematics Skills**  
A N Hieronymus, E F Lindquist, and H D Hoover  
Grades 3-9, Forms 5 and 6  
Norms  
Houghton Mifflin Company  
Not listed  
1971  
None

**Metropolitan Achievement Tests: High School Battery\***  
Walter N Durost, William H Evans, James D Leake,  
Howard A Bowman, Clarke Cosgrove, John G Read  
Grades 9-13, Form Am  
Norms  
Harcourt Brace Jovanovich  
Vt. 15, Vtl. 15  
1962  
None

\*Note The mathematics test is not published as a separate test

**1970 Metropolitan Mathematics Tests**  
Walter N Durost, Harold H Bixler, J Wayne Wrightstone,  
George A Prescott, and Irving H Balow  
Elementary, grades 3-4-9, intermediate, grades 5-6-9, advanced, grades 7-8-9-5, Forms F, G, and H  
Norms  
Harcourt Brace Jovanovich  
Vtl. 14  
1970  
None

**Modern Mathematics Supplement to the Iowa Tests of Basic Skills**  
E F Lindquist, A N Hieronymus, and H D Hoover  
Grades 3-9, 1 Form  
Norms  
Houghton Mifflin Company  
VII, 481  
1968  
None

**Peabody Individual Achievement Test: Mathematics Subtest**  
Lloyd M Dunn and Frederick C Markwardt, Jr  
Kindergarten through adult One form  
Norms  
American Guidance Service  
Not listed  
1970  
None

**Sanders-Schrader General Mathematics Test**  
H Eugene Schrader and Merritt W Sanders  
High school and college, Forms 1A and 1B, first semester,  
Forms 1IA and 1IB, second semester  
Norms  
Emporia Kansas State College  
VII, 486  
1964  
None

**Scholastic Testing Service Educational Development Series:  
Mathematics**

Oliver F. Anderhalter

Grade 2, Form A, grade 3, Form B, grades 4-6, Forms A and B, grades 6-9, Forms A, B, and C, grades 9-12, Forms A, B, C, and R

Norms

Scholastic Testing Service

V, 484

1963, 1965, 1972

1973, 1975

**1973 Stanford Mathematics Tests**

Richard Madden, Eric F. Gardner, Herbert C. Rudman,  
Bjorn Karlsen, Jack C. Merwin

Primary Level I, grades 1-2-4, Primary Level II, grades  
2-3-4, Primary Level III, grades 3-5-4-4, Intermediate  
Level I, grades 4-5-5-4, Intermediate Level II, grades  
5-5-6-9, Advanced, grades 7-0-9-5, Forms A and B

Norms

Harcourt Brace Jovanovich

Not listed

1973

None

**Stanford Modern Mathematics Concepts Test**

Truman L. Kelley, Richard Madden, Eric F. Gardner, and  
Herbert C. Rudman

Intermediate II, grades 5-5-6-9, Advanced, grades 7-0-9-5

Norms

Harcourt Brace Jovanovich

VII, 490

1965

None

**STEP Series II Mathematics Computation**

Not given

Grades 4-12, Forms 4A, 4B, 3A, 3B, 2A, 2B, 1A, 1B

Norms

Educational Testing Service

Not listed

1969

None

**STEP Series II Mathematics Basic Concepts**

Not given

Grades 4-14, Forms 4A, 4B, 3A, 3B, 2A, 2B, 1A, 1B

Norms

Educational Testing Service

Not listed

1969

None

**A Test of Understanding of Selected Properties of a Number  
System**

Robert A. Ashlock and Ronald C. Welch

K-3

Not available

Bureau of Educational Studies and Testing, Indiana Uni-  
versity

Ronald Welch at Indiana University

1966

1975

## High School, General

### California Achievement Tests, 1957 Edition — Mathematics

Ernest W. Tieg and Willis W. Clark  
Grades 9-14, Advanced, Forms X and Y  
Norms  
California Test Bureau, McGraw-Hill  
VI, 564  
1957  
1963 Renorming

### California Survey Series: Survey of Mathematics Achievement

Ernest W. Tieg and Willis W. Clark  
Grades 9-12  
Norms  
California Test Bureau/McGraw-Hill  
VI, 591  
1959  
None

### Cardall Junior Math Reasoning Test

Alfred I. Cardall  
Grades 10-12, Forms X and Y  
Norms  
Cardall Associates  
VI, 580  
1943  
None

### Iowa Tests of Educational Development

E. F. Lindquist and Leonard S. Feldt  
Test 4, Ability to Do Quantitative Thinking, grades 9-12,  
Forms X-4 and Y-4  
Norms  
Science Research Associates  
VI, 14 (Total IED Battery)  
1960  
(For revised edition, see next entry)

### Iowa Tests of Educational Development

E. F. Lindquist and Leonard S. Feldt  
Part 3 Mathematics, grades 9-12, Forms X-5 and Y-5  
Norms  
Science Research Associates  
Not listed  
1971  
None

### Metropolitan High School Mathematics Test\*

Walter N. Durost, William H. Evans, James D. Leake,  
Howard A. Bowman, Clarke Cosgrove, and John D. Read  
Grades 9-13, Forms Am and Bm  
Norms  
Harcourt Brace Jovanovich  
VI, 586, VII, 479  
1962  
None

\*Note: Separate test booklets are no longer available, but certain accessories are

**Minnesota High School Achievement Examination: Advanced Mathematics**

V. L. Lohmann, ed

Three forms, one revised each year

Norms

American Guidance Service

VI, 593

1952

1970, 1971, 1972

**1973 Stanford Test of Academic Skills\***

Eric F. Gardner, Robert Callis, Jack C. Merwin, and Richard Madden

Level I, grades 8-10, Level II, grades 11, 12, and 13, Forms A and B

Norms

Harcourt Brace Jovanovich

Not listed

1973

None

\*Note: The mathematics test is not available as a separate test

**Tests of Achievement in Basic Skills, TABS-MATH, Level D**

James C. Young

Grades 10-12, Forms 1 and 2

Norms

Educational and Industrial Testing Service

Not listed

1972

None

## Algebra

**Algebra Test for Engineering and Science**

A. B. Lonski

High school and college

Norms

Psychometric Affiliates

Not listed

1958

1961

**Blyth Second-Year Algebra Test**

M. Isobel Blyth

Grades 9-12, Form F

Norms

Harcourt Brace Jovanovich

V, 443; VII, 497

1953

1966

**Breslich Algebra Survey Test**

E. R. Breslich

First and second semesters, Forms A and B

Norms

Bobbs-Merrill Company

II, 1435

1930, 1931

None

**California Algebra Aptitude Test**

Noel Keys and Muriel McCrum

One form

Norms

American Guidance Service

IV, 385

1941

1958

**Cooperative Mathematics Tests: Algebra I, II, and III**

Not given

I, grades 8-9. II, high school. III, high school and college.

Forms A and B at each level

Norms

Educational Testing Service

VI, 594. VII, 500, 501

I, II, 1962. III, 1963

None

**Emporia State Algebra II Test**

Stanley I. Laughlin and Howard P. Schwartz

High school

Criterion-referenced norms

Emporia Kansas State College

Not listed

1974

None

**ERB Modern Elementary Algebra Test**

Frederic Bonan et al

Grades 8-9. Forms L and M

Norms

Educational Records Bureau

VII, 502

1965, 1966

None

**ERB Modern Second-Year Algebra Test**

Frederic Bonan et al

High school. Forms X and Y

Norms

Educational Records Bureau

VII, 503

1968, 1969

None

**First-Year Algebra Test**

Ray Webb and Julius H. Hlavaty

Secondary school

Norms

Psychometric Affiliates

VI, 600

1958

1962

**Illinois Algebra Tests**

Charles H. Shutter

Test I, first-semester final. II, second-semester midterm;

III, second-semester final

Norms

Bobbs-Merrill Company

V, 540

I, 1955. II, III, 1958

None

**Iowa Algebra Aptitude Test**

H. A. Greene and Darrell Sabers

Grade 8. Prealgebra

Norms

Bureau of Educational Research and Service, University of Iowa

II, 1441, III, 327, IV, 393, VII, 505

1931, 1942

1967

**Kepler Mid-Year Algebra Achievement Test**

Henry S. Kepler, Jr., and Darrell Sabers

First-year algebra

Item norms

Bureau of Educational Research and Service, University of Iowa

VII, 506

1969

None

**Lankton First-Year Algebra Test**

Robert S. Lankton

Grades 8-12, Forms E and F

Norms

Harcourt Brace Jovanovich

IV, 394, V, 451, VII, 507

1950

1965

**Lee Test of Algebraic Ability**

J. Murray Lee

Grades 7-8

Norms

Bobbs-Merrill Company

II, 1443, VII, 508

1930

1964

**Mid-Year Algebra Test**

Not given

Grades 8-12, Form A

Norms

Harcourt Brace Jovanovich

VII, 509

1968

None

**Minnesota High School Achievement Examination: Elementary Algebra**

V. L. Lohmann, ed.

Three forms, one revised each year

Norms

American Guidance Service

VI, 597, VII, 504

1955, 1963

1970, 1971, 1972

**Modern Algebra Test (Content Evaluation Series)**

Gerald S. Hanna

Grades 9-12

Norms

Houghton Mifflin Company

Not listed

1972

None

**Orleans-Hanna Algebra Prognosis Test**

Joseph B. Orleans and Gerald S. Hanna

Grades 7-11

Norms

Harcourt Brace Jovanovich

II, 1444, IV, 396, VII, 510

1928 (Orleans only)

1968

**Survey Test of Algebraic Aptitude**

Robert E. Dinkel

Grades 7-9

Norms

California Test Bureau/McGraw-Hill

VI, 602

1959

None

**Tucker-Sanders First-Year Algebra Test**

Charles B. Tucker and Merritt W. Sanders

Grades 9-12, Forms IA and IB, first semester, Forms IIA and IIB, second semester

Norms

Emporia Kansas State College

VII, 511

1964

None

## Geometry

**Cooperative Mathematics Tests: Geometry**

Not given

High school, Forms A and B

Norms

Educational Testing Service

VI, 645, VII, 533

1962, 1963

None

**Cooperative Mathematics Tests: Analytic Geometry**

Not given

High school and college, Forms A and B

Norms

Educational Testing Service

VI, 643, VII, 532

1963

None

**Howell Geometry Test**

Edgar N. Howell

Grades 9-12, Forms A and B

Norms

Harcourt Brace Jovanovich

VII, 536

1969

None

**Iowa Geometry Aptitude Test**

James Maxey and Darrell Sabers

Grades 9-10, pregeometry

Tentative norms  
Bureau of Educational Research and Service, University of  
Iowa  
II, 1469, III, 360, VII, 537  
1931, 1942  
1969

**Minnesota High School Achievement Examinations:  
Geometry**

V L Lohmann, ed  
Three forms, one revised each year  
Norms  
American Guidance Service  
VI, 649, VII, 534  
1955  
1970, 1971, 1972

**Modern Geometry Test (Content Evaluation Series)**

Gerald S Hanna  
Grades 9-12  
Norms  
Houghton Mifflin Company  
Not listed  
1971  
None

**Orleans-Hanna Geometry Prognosis Test**

Joseph B Orleans and Gerald S Hanna  
Grades 8-11  
Norms  
Harcourt Brace Jovanovich  
VII, 539  
1968  
None

**Plane Geometry**

Ray Webb and Julius Hlavaty  
Secondary school  
Norms  
Psychometric Affiliates  
VII, 540  
1958  
None

**Solid Geometry**

Ray Webb and Julius Hlavaty  
Secondary school  
Norms  
Psychometric Affiliates  
VI, 653  
1960  
None

**Tucker-Sanders Plane Geometry Test**

Charles B Tucker and Merritt W Sanders  
Grades 9-12, college freshmen, Forms IA and IB, first  
semester, Forms IIA and IIB, second semester  
Norms  
Emporia Kansas State College  
VII, 541  
1964  
None



## Trigonometry

### Cooperative Mathematics Tests: Trigonometry

Not given

High school and college, Forms A and B

Norms

Educational Testing Service

VI, 657, VII, 543

1962, 1963

None

### Minnesota High School Achievement Examinations: Trigonometry

V L Lohmann, ed

High school, three forms, one revised each Year

Norms

American Guidance Service

VI, 658

1961

1970, 1971, 1972

### Plane Trigonometry

Ray Webb and Julius H. Hlavaty

Secondary school

Norms

Psychometric Affiliates

VI, 656

1960

None

### Rasmussen Trigonometry Test

Otho M. Rasmussen and O J Peterson

Forms A and B

Norms

Emporia Kansas State College

V, 501, Tests in Print, 1134

1951

None

## College-related

### Advanced Placement Program — Calculus AB, Calculus BC

Committee

College level Most recent form offered for local administration to college students Not available to high schools

Norms

Educational Testing Service

VI, 570, VII, 451, 662

1954

1976

### Arithmetic Test for Prospective Nurses

Thelma Hunt

High school graduates

Norms

The Center for Psychological Service

IV, 818

1949

None

**Cardall Arithmetic Reasoning Test**

Alfred J. Cardall  
Grades 12-13, Forms A and B  
Norms (college freshmen)  
Cardall Associates  
VI, 617  
1947. Manual. 1942  
None

**Career Planning Program**

American College Testing Program Staff  
Grades 12-13, Form H  
Norms  
American College Testing Program (see p. 28)  
Not listed  
1970  
1976

**CLEP General Examination in Mathematics**

Committee  
College accreditation or placement, 2 forms  
Norms  
Educational Testing Service  
Not listed  
1972  
None

**CLEP Subject Examination in College Algebra**

Committee  
College accreditation or placement, 2 forms  
Norms  
Educational Testing Service  
VII, 498, 664  
1968  
None

**CLEP Subject Examination in Trigonometry**

Committee  
College accreditation or placement, 2 forms  
Norms  
Educational Testing Service  
VII, 542, 664  
1968  
None

**CLEP Subject Examination in College Algebra and Trigonometry**

Committee  
College accreditation or placement, 1 form  
Norms  
Educational Testing Service  
VII, 454, 664  
1968  
1970

**CLEP Subject Examination in Calculus with Analytic Geometry**

Committee  
College accreditation or placement, 1 form  
Norms  
Educational Testing Service  
VII, 530, 664  
1964  
1974

**CLEP Subject Examination in Statistics**

Committee

College accreditation or Placement; 2 forms

Norms

Educational Testing Service

VII, 545, 664

1967

None

**Comparative Guidance and Placement (see p 29)**

Committee

Designed for entering junior college students

Norms by modules

Educational Testing Service

VII, 666

1969

1972

**Cooperative Mathematics Tests: Calculus**

Not given

High school and college, forms A and B

Norms

Educational Testing Service

VI, 654, VII, 531

1963

None

**Doppelt Mathematical Reasoning Test**

J E Doppelt

Graduate student and personnel selection (high-level  
measure of numerical reasoning ability)

Norms

The Psychological Corporation

VI, 456, VII, 349

1954

1968

**Educational Skills Test/College Edition — Mathematics Test**

CTB/McGraw-Hill staff

Designed for entering college students

Norms

California Test Bureau/McGraw-Hill

Not listed

1971

None

**Junior College Placement Program (see p 31)**

Not given

Entering junior college students

Norms

Science Research Associates

VII, 669

1967

1969

**Kansas Mathematics Test (Arithmetic and Algebra)**

H E Schrammel

High school and college freshmen, forms A and B

Norms

Emporia Kansas State College

II, 1457, Tests in Print, 961

1939

1953-1955

**Scholastic Testing Service ASK—Skills Analysis of Mathematics**

Oliver F. Anderhalter and STS staff

Form A, Levels 12; 23; 34; 45; 56; 67, 78

Criterion-referenced diagnostic test with local and national norms

Scholastic Testing Service

Not listed

1974

None

**1973 Stanford Test of Academic Skills\***

Eric F. Gardner, Robert Callis, Jack C. Merwin, Richard Madden

Level II, College Edition, Grade 12; Forms A and B

Norms

Harcourt Brace Jovanovich

Not listed

1973

None

\*Note. The mathematics test is not available as a separate

test

## DIRECTORY OF PUBLISHERS

- American College Testing Program  
P.O. Box 168  
Iowa City, Iowa 52240
- American Guidance Service, Inc.  
Publishers' Building  
Circle Pines, Minnesota 55014
- The Bobbs-Merrill Company, Inc.  
Educational Publishing Division  
4300 West 62d Street  
Indianapolis, Indiana 46206
- Bureau of Educational Research and Service  
Division of Extension and University Services  
The University of Iowa  
C-20 East Hall  
Iowa City, Iowa 52242
- CTB/McGraw-Hill  
Del Monte Research Park  
Monterey, California 93940
- Cardell Associates  
122 Edgemoor Road  
Bala Cynwyd, Pennsylvania 19004
- The Center for Psychological Service of George Washington  
University  
Suite 419  
Columbia Medical Building  
1835 Eye Street, NW  
Washington, D.C. 20006
- Critical Thinking Project  
Education Building  
University of Illinois  
Urbana, Illinois 61801
- Edcodyne Corporation  
One City Boulevard, West  
Suite 935  
Orange, California 92668
- Educational and Industrial Testing Service  
Box 7234  
San Diego, California 92107
- Educational Records Bureau  
160 Speen Street  
Framingham, Massachusetts 01701
- Educational Testing Service  
P.O. Box 999  
Princeton, New Jersey 08540  
1947 Center Street  
Berkeley, California 94704
- Emporia Kansas State College  
Bureau of Educational Measurements  
1200 Commercial Street  
Emporia, Kansas 66801

Harcourt Brace Jovanovich, Inc  
757 Third Avenue  
New York, New York 10017

Hayes Educational Test Laboratory  
7040 North Portsmouth Avenue  
Portland, Oregon 97203

Houghton Mifflin Company  
53 West 43d Street  
New York, New York 10036  
777 California Avenue  
Palo Alto, California 94304  
666 Miami Circle, NE  
Atlanta, Georgia 30324  
1900 South Batavia Avenue  
Geneva, Illinois 60134  
110 Tremont Street  
Boston, Massachusetts 02107  
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Dallas, Texas 75325

Indiana University  
School of Education  
Education Building  
Bloomington, Indiana 47401

Mathematical Testing Service  
Milton Beckmann  
Secondary Education Department  
215 Henzlik Hall  
University of Nebraska  
Lincoln, Nebraska 68508

Media Research Associates  
1735 23d Street  
Salem, Oregon 97302

Psychometric Affiliates  
Box 3167  
Munster, Indiana 46321

The Psychological Corporation  
757 Third Avenue  
New York, New York 10017

Scholastic Testing Service, Inc  
480 Meyer Road  
Bensenville, Illinois 60106

Science Research Associates, Inc  
259 East Erie Street  
Chicago, Illinois 60611

## **RELATED EVALUATION SERVICES**

### **The Career Planning Program (CPP)**

The Career Planning Program is a guidance-oriented system designed to help students identify and explore personally relevant occupations and educational programs. The program is designed to function at two levels—grades 8-11

and grades 12-13. For grades 8-11, CPP was developed to assist schools in meeting many of the career guidance needs of their students, with the central goal of stimulating and facilitating both self-exploration and career exploration. The Numerical Skills scale (25 items, 15 minutes) was developed to test the student's ability to perform various kinds of basic arithmetic functions, such as addition, subtraction, multiplication, and division.

For grades 12-13, CPP collects, integrates, and reports information about the student's interests, experiences, and abilities and through an interpretive student report and student booklet helps the student relate this information to career planning. The Numerical Skills scale (36 items, 18 minutes), one of six CPP ability scales, is designed to assess basic arithmetic skills ranging from simple computation to the application of mathematical principles. The scale is designed to assess mathematical reasoning rather than previous coursework and is particularly useful for identifying students needing remediation in mathematics.

**Addresses For Grades 8-11**

Mr. Dennis K. Palmer  
 Editor-in-Chief  
 Career Education & Guidance  
 Dept. of Measurement & Guidance  
 Houghton Mifflin Company  
 1 Beacon Street  
 Boston, MA 02107

**For Grades 12-13**

Dr. John D. Roth  
 Director, ACT Career Planning Programs  
 Research and Development Division  
 The American College Testing Program  
 Box 168  
 Iowa City, IA 52240

## Comparative Guidance and Placement (CGP)

The CGP mathematics tests are designed primarily to assist two-year colleges and vocational-technical institutions in placing students with modest mathematical preparation in an appropriate course offered by the college. Depending on their backgrounds, the students take one of three tests called C, D, and E. Each test consists of two twenty-minute parts as shown below.

| Test | Part 1                          | Part 2                            |
|------|---------------------------------|-----------------------------------|
| C    | 35 Computation Questions        | 25 Applied Arithmetic Questions   |
| D    | 35 Computation Questions        | 35 Elementary Algebra Questions   |
| E    | 35 Elementary Algebra Questions | 35 Intermediate Algebra Questions |

The tests can be administered with self-scoring answer sheets so that both students and institutions can obtain on-the-spot results

Address CGP  
Box 2603  
Princeton, NJ 08540

## **Comprehensive Achievement Monitoring**

Comprehensive Achievement Monitoring (CAM) provides test results to teachers as information to help them make decisions about their students and their courses. CAM uses criterion-referenced test items (for which behavioral objectives have been previously defined), item-examinee sampling, and frequent test administrations. CAM provides information, analyzed and reported by computer, about individual students' achievement on each objective before instruction, immediately after instruction, and long after instruction, and about a group's achievement on all course objectives at each test administration.

As part of the process of working with school districts and state departments of education in developing criterion-referenced mathematics tests, a bank of objectives and test items has been compiled. These objectives and items are available in booklet form. Also, a "Minimum Competency Level" mathematics test has been developed.

Address Dr. William P. Gorth  
National Evaluation Systems, Inc.  
P. O. Box 226  
Amherst, Massachusetts 01002

## **Educational Records Bureau (ERB)**

Educational Records Bureau's Comprehensive Testing Program affords its members data that compare mathematics achievement in public schools, suburban schools, and independent schools. The ERB pupil profile projects mathematics performance against student aptitude and indicates whether the expected level of achievement is being reached. Item analysis permits the teacher to pinpoint areas of mathematics strengths and deficiencies.

Address Educational Records Bureau  
160 Speer Street  
Frammingham, Massachusetts 01002

## **Instructional Objectives Exchange: Objectives Collection (Grades K-12) Criterion-Referenced Tests (Grades K-9)**

Collections consist of instructional objectives and sample test items. Booklet titles are as follows:

Symbolism and Notation, K-9  
Numbers and Their Operations, K-9



Figure and Object Characteristics, K-9

Data Relationships, K-9

Algebra, 8-12

Geometry, 10-12

Test sets consist of approximately forty tests in each area. Each test (of five to ten items) is keyed to an amplified objective. Two content-parallel forms of each set are available (A and B). Test titles are as follows:

Sets and Numbers, K-6

Operations and Properties, K-6

Numeration and Relations, K-6

Measurement, K-6

Geometry, K-6

Elements, Symbolism, and Measurement, 7-9

Geometry, Operations, and Relations, 7-9

Address: Instructional Objectives Exchange

Box 24095

Los Angeles, California 90024

## **Junior College Placement Program (JCPP)**

The mathematics component of the JCPP consists of three overlapping forty-item tests. Students are routed to one of the three tests based on a self-scoring device. Students routed to the lower-level test answer questions in conventional arithmetic, those routed to the middle-level test answer arithmetic and geometry questions; and those routed to the upper-level test answer questions in geometry and algebra.

Address: Science Research Associates

259 East Erie Street

Chicago, Illinois 60611

## **Pennsylvania Retrieval of Information for Mathematics Education System (PRIMES)**

PRIMES is a consulting service in mathematics for grades K-8 designed to assist educators in curriculum development, implementation, and evaluation. PRIMES has a comprehensive data base which consists of a lesson-by-lesson analysis of most basal programs, grades K-8. For each textbook, lessons have been analyzed according to mathematical content, expected pupil behavior, and problem type. The PRIMES Mathematics Content Authority List contains a list of concepts and skills currently taught in elementary schools. The mathematics subtests of many widely used standardized tests have been analyzed item by item and related to the PRIMES Mathematics Content Authority List.

Additional services available through PRIMES include—

1. the use of the computer to monitor pupil achievement;
2. a pupil test-scoring service;
3. criterion-referenced tests correlated to the Content Authority List.

- 4 instructional kits for remediation.
- 5 a teacher-training component.
- 6 assistance in the selection of instructional materials

Address Dr Emanuel Berger  
Educational Developmental Center  
West Chester State College  
110 West Rosedale Avenue  
West Chester, PA 19380

## Score

A criterion-referenced testing system that combines behaviorally stated objectives with a computer-retrievable bank of related items Available at three levels Primary (K-3), Intermediate (4-6), and Junior High School (7-8)

Address Westinghouse Learning Corporation  
P O Box 30  
Iowa City, Iowa 52440

## Test Collection— Educational Testing Service

The Test Collection at Educational Testing Service maintains an extensive file of published and unpublished tests and other assessment devices Also included are files on American and foreign publishers, references to test reviews, and selected references on tests and test evaluations. Qualified persons, whether affiliated with ETS or not, may have on-site access to the materials in the collection The American Psychological Association's guidelines for access to assessment devices and restrictions requested by individual publishers are observed closely Those who find it impossible to visit the collection may direct specific questions to the collection by mail

Address Test Collection  
Educational Testing Service  
Princeton, New Jersey 08540

## REFERENCES

- Armbruster, F. *The U.S. Primary and Secondary Educational Process*. Croton-on-Hudson, N.Y.: The Hudson Institute, forthcoming.
- Buros, Oscar K. (ed.). *The Nineteen Thirty-Eight Mental Measurements Yearbook*. New Brunswick, N.J.: Rutgers University Press, 1938.
- \_\_\_\_\_. *The Nineteen Forty Mental Measurements Yearbook*. Highland Park, N.J.: The Mental Measurements Yearbook, 1941.
- \_\_\_\_\_. *The Third Mental Measurements Yearbook*. New Brunswick, N.J.: Rutgers University Press, 1949.
- \_\_\_\_\_. *The Fourth Mental Measurements Yearbook*. Highland Park, N.J.: Gryphon Press, 1953.
- \_\_\_\_\_. *The Fifth Mental Measurements Yearbook*. Highland Park, N.J.: Gryphon Press, 1959.
- \_\_\_\_\_. *The Sixth Mental Measurements Yearbook*. Highland Park, N.J.: Gryphon Press, 1965.
- \_\_\_\_\_. *The Seventh Mental Measurements Yearbook*. Highland Park, N.J.: Gryphon Press, 1972.
- \_\_\_\_\_. *Tests in Print II: An Index to Tests, Test Reviews, and the Literature on Specific Tests*. Highland Park, N.J.: Gryphon Press, 1974.
- Cronbach, Lee J. "Evaluation for Course Improvement." *Teachers College Record* 64, no. 8, 1963.
- Ferguson, R. E., and E. J. Maves. "Trends in the Academic Performance of High School and College Students." Mimeographed. Iowa City, Iowa: The American College Testing Program, 1975.
- Harnischteger, A., et al. *Test Score Decline: A Review of Evidence and Possible Grounds for Interpretation*. Chicago: CEMREL, forthcoming.
- McLaughlin, Kenneth F. *Interpretation of Test Results*. ERIC no. ED 050 176. Washington, D.C.: U.S. Department of Health, Education and Welfare, 1964. (Available in microfiche for \$0.65 or hardback for \$3.29 from U.S. Office of Education, 400 Maryland Avenue, S.W., Washington, D.C. 20202.)
- Tests and Measurements Kit, Rev. ed. Includes "Making the Classroom Test: A Guide for Teachers", "Selecting an Achievement Test: Principles and Procedures", and "Short-Cut Statistics for Teacher-made Tests: Multiple-Choice Questions—a Close Look". Princeton, N.J.: Educational Testing Service, 1973. (\$1.00).