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ABSTRACT

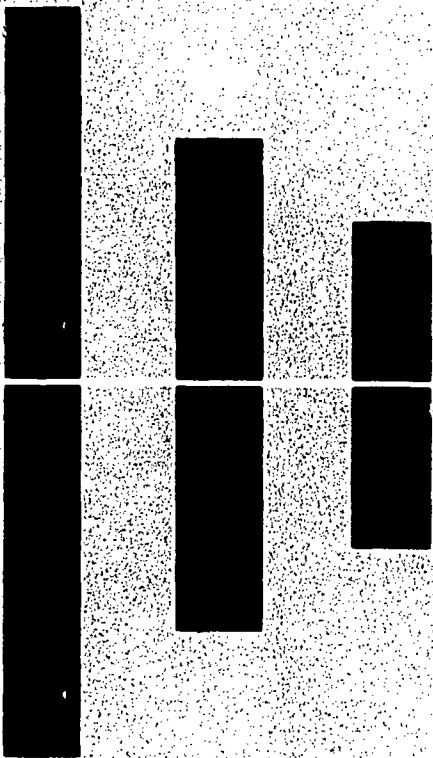
This pamphlet provides a comprehensive listing of mathematics tests available in the United States classified under eight headings: Arithmetic; Junior High; Batteries and General Listings, K-14; High School; General; Algebra; Geometry; Trigonometry; and College-related. Information given for each test includes title, authorship, grade levels and forms, availability of norms, publisher, reference to additional information, original date of publication, and date of latest revision. The pamphlet also contains a number of descriptions of related evaluation services with addresses for each. The final section lists 16 references which give information on the selection and use of tests. (For previous edition, see ED 039 125.) (DT)

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JAMES S. BRASWELL

U.S. DEPARTMENT OF HEALTH,  
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NATIONAL COUNCIL OF  
TEACHERS OF MATHEMATICS

mathematics tests available in the united states

JAMES S. BRASWELL

**MATHEMATICS TESTS  
AVAILABLE IN  
THE UNITED STATES**

**NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS**

**2**

## Mathematics Tests Available in the United States

Compiled by  
JAMES S. BRASWELL  
Educational Testing Service  
Princeton, New Jersey

Dedicated to  
SHELDON S. MYERS

Third Edition, Revised and Enlarged  
First Printing, 1972

Published by  
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**T**HIS PAMPHLET is a revision and expansion of the publication of the same name that was first published by the Council in 1959 and revised in 1968. Although there have been no extensive changes in the elementary and secondary school mathematics curricula since 1968, the focus of curriculum development has changed somewhat, and the issue of accountability has assumed a more prominent role in many school districts. At the curriculum development level, a number of programs have been or are being developed relative to rather specific behavioral objectives, some of which are monitored by criterion-referenced tests. Some school districts have voluntarily attempted to define their goals, both affective and cognitive, in behavioral terms; others have been required by law to do so. A logical consequence of defining the goals of instruction in mathematics in behavioral terms is the development of a plan or approach to measure the extent to which these goals are reached.

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 table of contents. As before, no attempt has been made to include tests that are designed specifically for a particular text series. Tests published outside the United States are not included. With these exceptions, however, the current list, derived from two independent surveys of published tests, is intended to be complete. Many new tests have been added to the 1968 listings, and a number of the 1968 listings that are now out of print have been removed. With two exceptions, every publisher whose tests appear in this pamphlet was given the opportunity to verify his listings for accuracy and completeness. In this regard, publishers were prompt and efficient. In this regard, publishers whose listings were not verified had tests brought to the attention of the author too near the publication date to allow time for this step.

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 specimen copy from the publisher and examine it carefully relative to the particular use intended. A directory of publishers is included following the listing of tests.

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 serv-

ices 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. 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 Batteries*, for example, "VI, 605" is given after the name of the publisher. This means that a review or a reference is found in the sixth yearbook under entry 605.

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 D, E, F, and G for all  
Norms (1960 restandardization)  
Bobbs-Merrill Company  
VI, 605  
Form D, 1955; E, 1956; F, 1957; G, 1958; Manual, 1955  
Revision on Manual only: grades 2-3, 1958; grades 4-6,  
1961; grades 7-9, 1963

#### **American School Arithmetic Readiness Tests**

Willis E. Pratt, Robert V. Young, and Gilbert L. Betts  
Kindergarten and grade 1  
Norms  
Bobbs-Merrill Company  
V, 456  
1941  
1955

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

Robert K. Speer and Samuel Smith  
Grades 3-6; Forms A and B  
Norms  
Psychometric Affiliates  
Not listed  
1939  
1958

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

Robert K. Speer and Samuel Smith  
Grades 6-8; Forms A and B  
Norms  
Psychometric Affiliates  
VI, 613  
1938  
1960

#### **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

#### **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 Arithmetic Test**

Ernest W. Tiegs and Willis W. Clark  
Lower primary, grades 1-2, and upper primary, grades  
H2-L4, Forms W and X; 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

**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 (Win-  
ter 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 2.5-3.9  
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

**Diagnostic Tests and Self-Helps 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 1A and 1B, first semester; Forms IIA and  
IIB, second semester  
Norms  
Kansas State Teachers College of Emporia  
VII, 519  
1964  
None

**Emporia Arithmetic Tests, Elementary**

Patricia Pease and Merritt W. Sanders  
Grades 2-3, Forms 1A and 1B, first semester; Forms IIA  
and IIB, second semester  
Norms  
Kansas State Teachers College of Emporia  
VII, 519  
1964  
None

**Emporia Arithmetic Tests, Intermediate**

Ruth Otterstrom and Merritt W. Sanders  
Grades 4-6, Forms 1A and 1B, first semester; Forms IIA  
and IIB, second semester  
Norms  
Kansas State Teachers College of Emporia  
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, 1964  
None

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

A. N. Hieronymus, E. F. Lindquist, and H. D. Hoover  
Grades 1.7-3.5; 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

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

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

**Metropolitan Achievement Tests: Primary I**

Walter N. Durost, et al.  
Grades 1.6-2.4  
Norms  
Harcourt Brace Jovanovich  
VII, 14  
1970  
None

**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, Forms Am, Bm, Cm, and Dm; advanced, grades 7-9, Forms Am, Bm, and Cm  
Norms  
Harcourt Brace Jovanovich  
VI, 627  
1958, 1962  
None

**Prescriptive Mathematics Inventory**

John K. Gessel  
Level A (grades 4 and 5), Level B (grades 5-7), Level C (grades 7 and 8)  
Norms (criterion-referenced, diagnostic type tests)  
California Test Bureau, McGraw-Hill  
Not listed  
1971  
None

**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 Subtests**

Louis P. Thorpe, D. Welty Lefever, and Robert A. Naslund  
Grades 1-2, 2-4, 4-6, and 4-9 (multilevel); Forms C and D; Forms E and F  
Norms  
Science Research Associates

VI, 632; VII, 526  
1955-58; 1963; machine-scorable 1-2 and 2-4, 1966 and 1967  
Forms E & F: 4-9 (multilevel) Fall, 1971; 1-4 (primary) Fall, 1972

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

Truman L. Kelly, 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, 1966  
None

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

Leslie 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: Level I**

Richard Madden and Eric F. Gardner  
Grades K.1-1.1  
Norms  
Harcourt Brace Jovanovich  
VII, 28  
1969  
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, Level 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  
Not listed  
1957  
1967

**A Test of Arithmetic Principles, Elementary Form**

Ronald C. Welch and Charles W. Edwards, Jr.  
Grades 3-5  
Indiana University, School of Education



VII, B632  
1965  
None

**Tests of Basic Experience—Mathematics Test**

Margaret H. Moss  
Level K (preschool and kindergarten) and Level L (kindergarten and grade 1)  
Norms  
California Test Bureau, McGraw-Hill  
VII, 33, 493  
1970  
None

**Wisconsin Contemporary Tests of Elementary Mathematics**

M. Vere DeVault, Elizabeth Fennema, K. Allen Neufeld,  
and Lewis B. Smith  
Grades 3-4 and 5-6 and beginning 7; Forms A and B for  
both  
Norms  
Personnel Press  
VII, 495  
1967  
None

## Junior High

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

Ernest W. Tiegs and Willis W. Clark  
Grades 7-9  
Norms  
CTB/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**

Ileen Engleson and Merritt W. Sanders  
Grades 7-8; Forms IA and IB, first semester; Forms IIA  
and IIB, second semester  
Norms  
Kansas State Teachers College of Emporia

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

**Minnesota High School Achievement Examinations: Mathematics**

V. L. Lohmann, ed.  
Grades 7-9; threeforms, one revised each year  
Norms  
American Guidance Service, Inc.  
VI, 577, 582  
1962, 1963  
1970, 1971, 1972

**National Achievement Tests: General Mathematics**

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

**Portland Prognostic Tests for Mathematics**

Ernest Hayes  
Grades 6.5-8.0 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. Knapp  
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**

G. K. Bennett, M. G. Bennett, D. M. Clendenen, J. E. Doppelt, J. H. Ricks, Jr. H. G. Seashore, and A. G. 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 Affiliates  
VI, 604  
1962  
None

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

Ernest W. Tiegs and Willis W. Clark  
Forms A and B, Levels 1, 2, 3, 4, 5, (grades 1.5-12)  
Norms  
CTB/McGraw-Hill  
V, 468; VII, 455  
1957  
1970

**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 Tests of Basic Skills—Arithmetic Test**

CTB/McGraw-Hill staff  
Forms Q and R, Levels 1 (grades 2.5-4), 2 (grades 4-6),  
3 (grades 6-8), and 4 (grades 8-12)  
Norms  
California Test Bureau, McGraw-Hill  
VII, 514  
1968  
None

**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

**Differential Aptitude Tests: Numerical Ability**

G. K. Bennett, H. G. Seashore, and A. G. Wesman  
Grades 8-12 and adult; Forms L and M  
Norms  
The Psychological Corporation  
VII, 673  
1947  
1968

**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

**1970 Metropolitan Mathematics Tests**

Walter N. Durost, Harold H. Bixler, J. Wayne Wrightstone, George A. Prescott, and Irving H. Balow  
Elementary, grades 3.5-4.9; intermediate, grades 5.0-6.9; advanced, grades 7.0-9.5; Forms F and G  
Norms

Harcourt Brace Jovanovich  
VII, 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

**Modern Math Understanding Test**

Vernon S. Larsen, John A. Harris, Joseph G. Guzaitis, James R. Minge, Patricia L. Mastropier, and Marcia E. Murphy  
Primary, grades 1-2; Intermediate, grades 3-4; multilevel, grades 4-6, 6-8, 8-9; Forms C and D  
Norms for multilevel  
Science Research Associates  
VII, 485  
Multilevel, 1966; primary and intermediate levels, 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 IA and IB, first semester; Forms IIA and IIB, second semester  
Norms  
Kansas State Teachers College of Emporia  
VII, 486  
1964  
None

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

Oliver F. Anderhalter  
Grades 2-3, Form A; grades 4-6, Form A; grades 6-9; Forms A and B; grades 9-12, Forms A and B  
Norms  
Scholastic Testing Service  
V, 484  
1963, 1965  
1972 (scheduled)

**Stanford Modern Mathematics Test**

Truman L. Kelly, Richard Madden, Eric F. Gardner, and Herbert C. Rudmann  
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

## High School, General

**California Mathematics Test: 1957 Edition with 1963 Norms**

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

**California Survey Series: Survey of Mathematics Achievement**

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

**Cardall Junior Math Reasoning Test**

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

**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

**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 ITED 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, Bm  
Norms  
Harcourt Brace Jovanovich  
VI, 586; VII, 479  
1962  
None

**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

**Stanford High School Mathematics Test**

Eric F. Gardner, Jack C. Merwin, Robert Callis, and  
Richard Madden  
Grades 9-12; Forms W and X  
Norms  
Harcourt Brace Jovanovich  
VII, 488  
1965-66  
None

**Stanford High School Numerical Competence Tests**

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

Grades 9-12; Forms W and X  
Norms  
Harcourt Brace Jovanovich  
VII, 489  
1965-66  
None

**Tests of Academic Progress: Test 5, Mathematics**

Dale P. Scannell, ed.  
Grades 9-12; Forms 1 and 2  
Norms  
Houghton Mifflin Company  
VII, 491  
1964  
None

**Tests of Academic Progress: Test 5, Mathematics, Form S**

Dale P. Scannell, ed.  
Grades 9-12; Form S  
Norms  
Houghton Mifflin Company  
VII, 491  
1971  
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; Forms E and 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

**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

**Kepner Mid-Year Algebra Achievement Test**

Henry S. Kepner, 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 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  
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  
Kansas State Teachers College of Emporia  
VII, 511  
1964  
None

**Votaw Algebra Test**

David F. Votaw, Sr., and David F. Votaw, Jr.  
Grades 9-12; Forms D, E, and F  
No norms  
Steck-Vaughn Company  
II, 1446; III, 329; VI, 603  
1939  
1959

## 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 Plane Geometry Aptitude Test**

H. A. Greene and H. W. Bruce  
Grades 9-10, Pregeometry  
No norms  
Bureau of Educational Research and Service, University of  
Iowa  
II, 1469; III, 360; VII, 537  
1931  
1969

**Mid-Year Geometry Test**

Not Given  
Grades 9-12  
Norms  
Harcourt Brace Jovanovich  
VII, 538  
1968  
None

**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  
Kansas State Teachers College of Emporia  
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  
Kansas State Teachers College of Emporia  
V, 501; *Tests in Print*, 1134  
1951  
None

## College-related

**ACT Mathematics Placement Examination**

Not given  
College placement  
Local norms recommended

American College Testing Program  
VII, 449  
1968  
None

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

Not given  
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  
1972

**Arithmetic Test for Propsective 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

**CLEP General Examination in Mathematics**

Not given  
College accreditation or placement; 2 forms  
Norms  
Educational Testing Service  
Not listed  
1972  
None

**CLEP Subject Examination in College Algebra**

Not given  
College accreditation or placement; 2 forms  
Norms  
Educational Testing Service  
VII, 498, 664  
1968  
None

**CLEP Subject Examination in Trigonometry**

Not given  
College accreditation or placement; 2 forms  
Norms  
Educational Testing Service  
VII, 542, 664  
1968  
None

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

Not given  
College accreditation or placement; 1 form  
Norms  
Educational Testing Service  
VII, 454, 664  
1968  
1970

**CLEP Subject Examination in Introductory Calculus**

Not given  
College accreditation or placement; 1 form  
Norms  
Educational Testing Service  
VII, 530, 664  
1964  
None

**CLEP Subject Examination in Statistics**

Not given  
College accreditation or placement; 2 forms  
Norms  
Educational Testing Service  
VII, 545, 664  
1967  
None

**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

**McGraw-Hill Basic Skills System—Mathematics Test**

CTB/McGraw-Hill staff  
Forms A and B, grades 10-14  
Norms  
California Test Bureau, McGraw-Hill  
VII, 477  
1970  
None

**Purdue Industrial Mathematics Test**

C. H. Lawske and D. H. Price; Joseph Tiffin, ed.  
Adult; Forms A and B  
Norms in Manual  
The University Book Store  
III, 314; *Tests in Print*, 971  
1946  
None

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

H. E. Schrammel  
High school and college freshmen; Forms A and B  
Norms  
Kansas State Teachers College of Emporia  
II, 1457; *Tests in Print*, 961  
1939  
1953-1955



## 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.  
4300 West 62d Street  
Indianapolis, Indiana 46268

Bureau of Educational Research and Service  
Division of Extension and University Services  
The University of Iowa  
Iowa City, Iowa 52240

California Test Bureau  
Division of McGraw-Hill Book Co.  
4300 Del Monte Research Park  
Monterey, California 93940

Cardell Associates  
11 Charlton  
Princeton, New Jersey 08540

The Center for Psychological Service of  
George Washington University  
1835 Eye Street, NW  
Washington, D.C. 20006

Cornell Critical Thinking Project  
Cornell University  
107 Stone Hall  
Ithaca, New York 14850

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  
116 Maple Avenue  
Greenwich, Connecticut 06830

Educational Testing Service  
P.O. Box 999  
Princeton, New Jersey 08540  
1947 Center Street  
Berkeley, California 94704

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

Hayes Educational Test Laboratory  
7040 Portsmouth Avenue, North  
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  
6626 Oakbrook Boulevard  
Dallas, Texas 75325

Indiana University  
School of Education  
Education Building  
Bloomington, Indiana 47401

Kansas State Teachers College of Emporia  
Bureau of Educational Measurements  
1200 Commercial Street  
Emporia, Kansas 66801

Personnel Press  
191 Spring Street  
Lexington, Massachusetts 02173

Psychometric Affiliates  
Box 3167  
Munster, Indiana 46321

The Psychological Corporation  
304 East 45th Street  
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

Steck-Vaughn Company  
P.O. Box 2028  
Austin, Texas 78767

The University Book Store of Purdue University  
360 State Street  
West Lafayette, Indiana 47906

## RELATED EVALUATION SERVICES

### Bank of Objectives, Items, and Resources

The Bank of Objectives, Items, and Resources is designed to provide a set of 2,000 objectives in mathematics classified by topic, subtopic, grade level, taxonomy level, and enabling and terminal levels. Each objective is associated with items to develop evaluation instruments to determine if students have mastered the behavioral objectives. The objectives are also associated with instructional resources which may be used to teach students the objectives. The classification of objectives is available in a computerized bank which can help the users quickly locate the identification numbers of objectives, items, and resources of interest to them.

Addresses:

*Inside New York State*  
Dr. Robert P. O'Reilly  
Division of Research  
New York State Education Department  
Albany, New York 12224

Outside New York State  
Dr. William Gorth  
Center for Educational Research  
School of Education  
University of Massachusetts  
Amherst, Massachusetts 01002

### **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.

Address:

Dr. William Gorth  
Center for Educational Research  
School of Education  
University of Massachusetts  
Amherst, Massachusetts 01002

### **Instructional Objectives Exchange: Objective Collection in Mathematics, Grades K-12**

Consists of a number of instructional objectives based upon curricular materials and a pool of items to assess the attainment of the objectives. Content areas include sets, numbers, numerals, and numerative systems, operations and their properties, measurement, geometry, relations, functions, and graphs, probability and statistics, applications and problem solving, and mathematical sentences, order and logic.

Address:

Instructional Objectives Exchange  
Box 24095  
Los Angeles, California 90024

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

One purpose of PRIMES is to provide school districts with information to aid in textbook selection and curriculum evaluation in a manner consistent with local needs. PRIMES consists of a lesson-by-lesson analysis of many

basal programs, grades K-6. Each lesson is analyzed according to mathematical content, expected pupil behavior, and problem type. Technical vocabulary and symbolism are noted. *The PRIMES Mathematics Content Authority List: K-6* contains a list of concepts and skills currently taught in elementary schools. Sample tests are also included.

The mathematics subtests of 10 widely used standardized tests have been analyzed item-by-item and related to the *Content Authority List: K-6*. Additional services being developed include the use of the computer to monitor pupil achievement and a pupil test-scoring service indicating the concepts mastered and not mastered on any one of several widely used standardized achievement tests.

Address:

Dr. Emanuel Berger  
PRIMES Project  
P.O. Box 911  
Harrisburg, Pennsylvania 17126

### **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

- Buros, Oscar Krisen, ed. *The Mental Measurements Yearbook series*. Gives comprehensive lists of tests with reviews.
- 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*. Highland Park, N.J.: Gryphon Press, 1961.
- Cronbach, Lee J. "Evaluation for Course Improvement." *Teachers College Record* 64, no. 8 (1963).
- Husek, T. R. "Different Kinds of Evaluation and Their Implications for Test Development." *Evaluation Comment* 2, no. 1 (1969), pp. 8-10.\*
- Klein, Stephen P. "The Uses and Limitations of Standardized Testing in Meeting the Demands for Accountability." *Evaluation Comment* 2, no. 4 (1971), pp. 1-6.†
- McLaughlin, Kenneth F. *Interpretation of Test Results*. Washington, D.C.: U.S. Department of Health, Education, and Welfare, 1964.‡
- National Council of Teachers of Mathematics. *Evaluation in Mathematics*, Twenty-sixth Yearbook. Washington, D.C.: The Council, 1961.
- Scriven, Michael. *The Methodology of Evaluation*. AERA Monograph Series on Curriculum Evaluation. 1967, no. 1, pp. 39-83.
- Selecting an Achievement Test: Principles and Procedures*. Evaluation and Advisory Service Series, no. 3. Princeton, N.J.: Educational Testing Service. Free.

\**Evaluation Comment* is a publication of the Center for the Study of Evaluation, 145 Moore Hall, University of California at Los Angeles, Los Angeles, Calif. 90024.

†See preceding note.

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