

Unlocking the Mystery of Math

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Educational Software, Inc.

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**"From Counting to Calculus"**

**ARITHMETIC**   **BASIC MATH**   **ALGEBRA**   **GEOMETRY**   **ADVANCED MATH**

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## Basic Math Series

Set of 6 Programs

**Fractions, Decimals, Percents, Pre-Algebra, Intro Geometry, Word Problems**

The Learning Management System (LMS) in each program tracks student achievement when they take a quiz or test with the topic completed, their name, date, time, and score.

This Basic Math curriculum software is perfect to learn, re-learn, review and prepare for Proficiency Exams and Achievement Tests. These instructional software programs are appropriate for young learners (middle school math students) as well as adults returning to the basics of mathematics. Each educational math software program offers interactive basic math problems with solutions and explanations. To learn pre algebra, students first need the proper foundation in the basic math skills : fractions, decimals, and percents. To learn geometry, students need a strong algebra background. This basic math skills series provides students with the comprehensive instruction and practice necessary to learn math and become successful math students. This academic software provides instruction in understanding fractions through converting fractions to decimals through calculating percents and the plentiful pre-algebra help. Students will be engaged while learning with this easy to use Math Media academic software.

Tests for all five (5) instructional software programs of basic math skills are included. These tests are scored and stored by the computer for evaluation of progress -- A valuable tool for the classroom teacher. After taking the test, a personalized score sheet is printed along with an evaluation of topics requiring further study - identifying areas where their skills need development is the key to personalizing math education - MathMedia's educational math software will do this for each student. The student can then return to the interactive math learning portion of the program and practice more math problems in those sections which were weak areas. The use of the tests in these math computer programs is flexible -- the student may take Test A as a pre-test and Test B as a post-test or Test A may be used for one student and Test B for another. Use MathMedia's technology to target instruction to meet each student's unique needs.

Since data collection continues to be an important issue, the "Basic Math Series" provides you with a "Learning Management System" (LMS) which schools are using to report results to satisfy NCLB requirements. The LMS automatically tracks students' test scores and provides the teacher with a database to sort and print as needed. (Affordable upgrades to this latest version are available to previous customers.) Since the style of these basic math educational software programs is kind and gentle but serious, they are appropriate for middle school math students as well as adults preparing for placement exams.

College Prep Math Software programs improve students' math skills. Suitable for elementary school, high school, or developmental college students. This math help software provides tips and techniques for elementary math through high school students and offers one-on-one help for math students using a variety

of methods. This self-paced math software provides opportunities for special education students with learning disabilities as well as gifted students who want to accelerate. Classroom teachers enjoy the flexibility the software provides to satisfy the learning needs of students with different learning styles.

This very popular academic math software program has provided math learning opportunities for 5th grade math students through high school math students and adults returning to their math education. Students using the "Basic Math Series" to prepare for the math sections of the SAT, ACT, and GRE have gained the skills necessary for success. MathMedia Educational Software will be your virtual math tutor.

Pre-requisites: Arithmetic and Basic Reading Comprehension

### **Basic Math Series – Program #1 - “Fraction Basics”**

Learning fractions with this software program is comprehensive, complete, and organized methodically from comparing fractions to adding and subtracting fractions to multiplying fractions. Instructors use this software to aid in teaching fractions. Learn math with this first program in the "Basic Math Series" curriculum in an organized systematic approach.

MENU #1: What is a Fraction?, Equivalent Fractions, Reducing Fractions to Lowest Terms, LCD, Comparing Fractions, Improper Fractions, Mixed Numbers, Graphing Fractions, and Converting a Fraction to a Decimal.

MENU #2: What is a Ratio?, What is a Proportion?, Adding Fractions with the same denominator and Adding Fractions with different denominators, Subtracting Fractions with the same denominator and Subtracting Fractions with different denominators, Multiplying Fractions with a simple method and Multiplying Fractions with the cancellation method, Dividing Fractions, Fractions of Numbers, and Operations on Mixed Numbers. Although these topics in fractions are generally taught in 4th grade math and 5th grade math, they appear throughout the math curriculum. Adult students returning to their math education will benefit from learning math with these math software programs. Improve students' math skills. Suitable for elementary school, high school, or developmental college math students. This math help software provides tips and techniques for elementary math student and teachers who are teaching fractions through high school students. This "Fraction Basics" software program offers one-on-one help for math students using a variety of methods.

TEST: The program concludes with a test which is scored by the computer. A printout of the student's answers and which sections require additional learning is provided.

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This material is presented to classroom students over the course of years - some concepts beginning as early as elementary school and continuing through high school. Use this tutorial software to keep up with schoolwork, to learn at home, to remediate, to accelerate, as a course or as a reference.

### **Basic Math Series – Program #2 - “Decimal Basics”**

MENU #1 contains: Place Value, Writing Decimals, Reading from a Graph, Least to Greatest, Rounding and Estimating, Decimal to Fraction and Comparing to Fractions.

MENU #2 instructs on using decimals: Adding, Subtracting, Multiplying, Dividing, Powers of 10, and a concluding section on Word Problems.

TEST: The program concludes with a test which is scored and recorded by the computer. A printout of the student's answers and which sections require additional learning is provided. Improve students' math skills. Suitable for elementary school, high school, or developmental college students. This math help software provides tips and techniques for elementary math through high school students and offers one-on-one help for math students using a variety of methods.

### **Basic Math Series – Program #3 - “Percent Basics”**

MENU #1 is Understanding Percents: "What is a Percent?", Type 1, 2, and 3 Problems, Calculating Grades, and Percents in Sports.

MENU #2 is Working with Percents: Nutrition, Discounts, Circle Graphs, Percent Increase and Decrease, Percents in Geography, and Percents in Political Polls. Word Problems are scattered throughout the program.

TEST: The program concludes with a test which is scored and stored automatically. A printout of the student's answers and which sections require additional learning is provided.

### **Basic Math Series – Program #4 - “Algebra Basics”**

Learning Basic Algebra with this basic algebra help software works. This pre algebra program offers basic algebra help with instruction and practice basic algebra problems on the topics necessary for success in high school Algebra. Immediate feedback for students with automatic scoring for students and teachers to track progress.

This basic algebra material is usually taught to middle school math students but is also very appropriate for adult learners returning to their math education. This basic algebra software is written in a very straight forward manner which appeals to middle school math students, high school students, and adults.

These pre algebra tutorials include: Signed Numbers, Order of Operations, Variables, Properties, Expressions, Equations, Exponents, and Square Roots. Pre Algebra is the foundation for success in future math classes. MathMedia provides basic algebra tutorials for the beginning algebra student.

This basic algebra program also includes two additional middle school math topics in "Probability" and "Charts & Graphs".

TEST: This learning basic algebra program concludes with a test which is scored and stored by the computer. A printout of the student's answers and which sections require additional learning is provided. The student then returns to the body of the program to receive the algebra help they need and be ready to take another test of their basic algebra skills.

### **Basic Math Series – Program #5 - “Geometry Basics”**

This basic geometry software program covers all the major high school topics in a survey approach. Basic geometry topics taught and practiced are: Points, Lines, Angles, Triangles, Perpendicularity, Parallel Lines, Triangle Sum, Similarity, Right Triangle Geometry, Circles, Property of Quadrilaterals, Area, Perimeter, and Volume.

This interactive geometry software program also contains an in-depth "Vocabulary" section and a "Coordinate Geometry" section (with Transformations, Midpoint and Distance) Geometry help is always available in the form of hints and step-by-step solutions which unfold upon student request.

TESTS: Use Test A as a pre-test and Test B as a post-test. Or, simply start the learning with the first section and test the students later. The tests are scored and stored automatically by the computer. A printout of the student's answers and which sections require additional learning is provided.

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This basic geometry material is presented to classroom students over the course of years - some concepts beginning as early as elementary school and continuing through high school. Use this tutorial geometry software to keep up with schoolwork with the geometry help it provides, to learn at home, to remediate, to accelerate, as a course or as a reference.

### **Basic Math Series – Program #6 - “Word Problems for Basic Math”**

After many requests for dedicated word problem programs designed in the MathMedia style, we are pleased to offer this interactive basic math problem solving program for math students who have mastered

the mechanics of the operations on fractions, decimals, percents, pre-algebra, and intro-geometry. With over 200 menu-driven practice problems, students will be able to focus on reading the words, deciphering the meaning, and applying what they know about basic math problem solving. Students will learn math problem-solving strategies and practice the types of math word problems, which typically appear on standardized tests. Hints are available to help and coach the student along. Score reports are generated every ten questions.

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This math problem solving program is divided into topic sections, so that a student who has mastered fractions but not yet pre-algebra can still work on the fraction section before tackling the pre-algebra section. These math word problems are geared toward teaching and learning problem solving techniques on the types of questions encountered on standardized tests given to 5th grade math through 8th grade math students as well as typical everyday life math problems.

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There is much talk in Washington about providing our students with 21st-century skills, such as problem solving and critical thinking - this program is part of that learning process for elementary school and middle school students learning to think while using their math skills.