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Algebra Teacher's Activities Kit: 150 Ready-to-Use Activitites with Real World Applications

Judith A. Muschla, Gary Robert Muschla

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"Algebra Teacher's Activities Kit" is a unique resource that provides 150 ready-to-use algebra activities designed to help students in grades 6-12 master pre-algebra, Algebra I, and Algebra II. The book covers the skills typically included in an algebra curriculum. Developed to motivate and challenge students, many of the activities focus on real-life applications. Each of the book's ten sections contains teaching suggestions that provide teachers with strategies for implementing activities and are accompanied by helpful answer keys. The activities supply students with quick feedback, and many of the answers are self-correcting.

Each activity stands alone and can be applied in the manner that best fits your particular teaching program. "Algebra Teacher's Activities Kit" can be used as a supplement to your instructional program, to reinforce skills and concepts you've previously taught, for extra credit assignments, or to assist substitute teachers.

For quick access and easy use, the activities are printed in a big 8 1/2" x 11" lay-flat format for photocopying and are organized into ten sections.

THE LANGUAGE OF ALGEBRA (USING WHOLE NUMBERS) provides 15 activities, such as Using Square Numbers . . . Writing Phrases as Algebraic Expressions . . . Evaluating Expressions Using Exponents.

INTEGERS, VARIABLES, AND EXPRESSIONS offers 15 activities, such as Using a Number Line to Graph Integers . . . Comparing Sums and Differences . . . Solving Word Problems with Integers.

LINEAR EQUATIONS AND INEQUALTIES includes 24 exercises, such as Creating Word Problems . . . Solving Simple Percent Problems . . . Adding and Subtracting Matrices.

GRAPHING LINEAR EQUATIONS AND INEQUALITIES is packed with 15 activities, including Graphing Points on the Coordinate Plane . . . Finding the Slope of a Line . . . Solving Systems of Equations by Graphing.

BASIC OPERATIONS WITH MONOMIALS AND POLYNOMIALS offers 12 activities, such as Using the Terms of Polynomials . . . Finding Powers of Monomials . . . Finding Cubes of Binomials.

FACTORS OF MONOMIALS AND POLYNOMIALS features 12 exercises, such as Finding the Missing Factor . . . Factoring Trinomials . . . Factoring the Sum and Difference of Cubes.

FUNCTIONS AND RELATIONS provides 12 activities, including Identifying Functions . . . Finding the Domain of a Function . . . Evaluating the Greatest Integer Function.

COMPLEX NUMBERS offers 12 activities, such as Simplifying Square Roots . . . Multiplying and Dividing Radicals . . . Using Complex Numbers to Simply Expressions.

POLYNOMIAL, EXPONENTIAL, AND LOGARITHMIC FUNCTIONS gives you 13 exercises, including Solving Quadratic Equations by Factoring . . . Finding the Zeroes of Polynomial Functions . . . Borrowing and Repaying Money (with Interest).

POTPOURRI offers you 20 exercises such as Cracking a Code . . . Building an Algebra Vocabulary Chain . . . Famous Mathematicians and Algebra.

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