

Ohio Academic Content Standards K-12 Mathematics Correlated to Merit Software Mathematics Programs

By the end of the 3-4 program:

- A. Recognize and generate equivalent representations for whole numbers, fractions and decimals.
- B. Represent commonly used fractions and mixed numbers using words and physical models.
- C. Use models, points of reference and equivalent forms of commonly used fractions to judge the size of fractions and to compare, describe and order them.

Merit Software: Fraction Shape-Up

By the end of the 5-7 program:

- A. Use variables to create and solve equations and inequalities representing problem situations.
- B. Use symbolic algebra to represent and explain mathematical relationships.
- C. Write, simplify and evaluate algebraic expressions.
- D. Solve linear equations and inequalities symbolically, graphically and numerically.

Merit Software: Pre-Algebra Shape-Up, Basic Algebra Shape-Up, Word Problem Shape-Up

By the end of the 8-10 program:

- A. Use algebraic representations to model and solve problem situations.
- B. Solve quadratic equations with real roots by graphing, formula and factoring.

Merit Software: Basic Algebra Shape-Up, Word Problem Shape-Up