

# South Carolina Curriculum Standards Correlated to Merit Software Math Programs

## Elementary Math

Standard	Expectations	Merit Software
<p><b>Develop understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers.</b></p>	<ol style="list-style-type: none"> <li>1. Describe fractional parts of a unit or a group of objects (<math>1/100</math>, <math>1/10</math>, <math>1/8</math>, <math>1/6</math>, <math>1/5</math>, <math>1/4</math>, <math>1/3</math>, and <math>1/2</math>).</li> <li>2. Locate points on a number line corresponding to a unit fraction and its multiples between 0 and 1.</li> <li>3. Name and write mixed numbers and improper fractions shown in concrete and pictorial models.</li> <li>4. Explain the relationship between fractions and division.</li> </ol>	<p>Fraction Shape-Up</p>
<p><b>Use models, benchmarks, and equivalent forms to judge the size of fractions.</b></p>	<ol style="list-style-type: none"> <li>1. Relate the size of fractions to the benchmark fractions of 0, <math>1/2</math>, and 1.</li> <li>2. Compare concrete or pictorial models of fractions</li> </ol>	<p>Fraction Shape-Up</p>
<p><b>Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals.</b></p>	<ol style="list-style-type: none"> <li>1. Add and subtract decimals through hundredths using concrete and pictorial models.</li> <li>2. Multiply commonly used fractions (including decimals) using area models.</li> <li>3. Relate connections between products of fractions and products of decimals using area models.</li> </ol>	<p>Fraction Shape-Up</p>

## Pre-Algebra/ Basic Algebra Math

Standard	Expectations	Merit Software
<p><b>Develop an initial conceptual understanding of different uses of variables.</b></p>	<ol style="list-style-type: none"> <li>1. Use order of operations to evaluate numerical expressions.</li> <li>2. Explain the use of a variable as a quantity that can change its value, as a quantity on which other values depend, and as generalization of patterns.</li> <li>3. Evaluate simple algebraic expressions for given values of variables by using the substitution principle and the rules for order of operations.</li> </ol>	<p>Pre-Algebra Shape-Up</p> <p>Basic Algebra Shape-Up</p>
<p><b>Use symbolic algebra to represent situations and to solve problems, especially those that involve linear relationships.</b></p>	<ol style="list-style-type: none"> <li>1. Use variables to describe numerical expressions and relationships.</li> </ol>	<p>Pre-Algebra Shape-Up</p> <p>Basic Algebra Shape-Up</p>
<p><b>Recognize and generate equivalent forms for simple algebraic expressions and solve linear equations.</b></p>	<ol style="list-style-type: none"> <li>1. Use commutative, associative, and distributive properties to examine equivalence of a variety of simple algebraic expressions.</li> <li>2. Recognize and apply the additive and multiplicative inverses.</li> <li>3. Use models and numbers to solve one-step linear equations and inequalities in one variable.</li> <li>4. Simplify a variety of algebraic expressions using properties of real numbers and rules for order of operations</li> <li>5. Using strategies that involve inverse operations, solve one- and two-step linear equations and inequalities in one variable.</li> </ol>	<p>Basic Algebra Shape-Up</p>