

The Voluntary State Curriculum (VSC) of The State of Maryland Correlated to Merit Software Math Programs.

Elementary School

Objective	Expectations	Merit Software
Locate points on a number line and in a coordinate grid	<ul style="list-style-type: none">• Represent mixed numbers and proper fractions on a number line• Use proper fractions•	Fraction Shape-Up

Middle School

Objective	Expectations	Merit Software
Write, simplify, and evaluate expressions	<ul style="list-style-type: none"> • Write an algebraic expression to represent unknown quantities • Assessment limit: Use one unknown and no more than 3 operations and rational numbers (-1000 to 1000) • Evaluate an algebraic expression • Assessment limit: Use one or two unknowns and up to three operations and rational numbers (-100 to 100) • Evaluate numeric expressions using the order of operations • Assessment limit: Use no more than 5 operations including exponents of no more than 3 and 2 sets of parentheses, brackets, a division bar, or absolute value with rational numbers (-100 to 100) • Simplify algebraic expressions by combining like terms • Describe a real-world situation represented by an algebraic expression 	<p>Word problem Shape-Up</p> <p>Pre-Algebra Shape-Up</p>
Identify, write, solve, and apply equations and	<ul style="list-style-type: none"> • Write equations or inequalities to 	<p>Word problem Shape-Up</p>

<p>inequalities</p>	<p>represent relationships</p> <ul style="list-style-type: none"> • Assessment limit: Use a variable, the appropriate relational symbols ($>$, \geq, $<$, \leq, $=$) and no more than 3 operational symbols ($+$, $-$, \times, \div) on either side and rational numbers (-1000 to 1000) • Solve for the unknown in a linear equation • Assessment limit: Use one unknown no more than 3 times on one side and up to three operations (same or different but only one division) and rational numbers (-2000 to 2000) • Solve for the unknown in an inequality • Assessment limit: Use a one- or two-operation inequality with one variable on one side no more than 3 times whose result after combining coefficients is a positive whole number coefficient with integers (-100 to 100) • Identify or graph solutions of inequalities on a number line • Assessment limit: Use 	<p>Pre-Algebra Shape-Up</p>
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	<p>one variable once with a positive whole number coefficient and integers (-100 to 100)</p> <ul style="list-style-type: none">• Identify equivalent equations• Assessment limit: Use one unknown no more than 3 times on one side and up to three operations (same or different but only one division) and integers (-2000 to 2000)• Apply given formulas to a problem-solving situation• Assessment limit: Use no more than four variables and up to three operations with rational numbers (-500 to 500)• Write equations and inequalities that describe real-world problems	
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