

Louisiana Mathematics Framework Correlated to Merit Software Mathematics Programs

Benchmark K-4

CONTENT STANDARD	STUDENT LEARNING EXPECTATIONS	MERIT SOFTWARE
<p>In problem-solving investigations students demonstrate an understanding of concepts and processes that allow them to analyze, represent, and describe relationships among variable quantities and to apply algebraic methods to real-world situations.</p>	<ol style="list-style-type: none"> 1. Demonstrating a conceptual understanding of variables, expressions, equations, and inequalities. 2. Modeling and developing strategies for solving equations and inequalities. 	<p>Pre-Algebra Shape-Up</p>

Benchmark 5-8

CONTENT STANDARD	STUDENT LEARNING EXPECTATIONS	MERIT SOFTWARE
<p>In problem-solving investigations, students demonstrate an understanding of the real number system and communicate the relationships within that system using a variety of techniques and tools.</p>	<ol style="list-style-type: none"> 1. Demonstrating that a rational number can be expressed in many forms, and selecting an appropriate form for a given situation. 2. Reading, writing, representing, and using rational numbers in a variety of forms. 3. Constructing procedures to compute and estimate with rational numbers employing mental math 	<p>Pre-Algebra Shape-Up Word Problem Shape-Up</p>

	<p>strategies.</p> <p>4. Selecting and using appropriate computational methods and tools for given situations involving rational numbers.</p> <p>5.</p>	
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Benchmark 9-12

CONTENT STANDARD	STUDENT LEARNING EXPECTATIONS	MERIT SOFTWARE
In problem-solving investigations students demonstrate an understanding of concepts and processes that allow them to analyze, represent, and describe relationships among variable quantities and to apply algebraic methods to real-world situations.	<ol style="list-style-type: none"><li data-bbox="753 384 1159 520">1. Demonstrating a conceptual understanding of variables, expressions, equations, and inequalities.<li data-bbox="753 527 1247 632">2. Modeling and developing methods for solving equations and inequalities.	Basic Algebra Shape-Up Word Problem Shape-Up