

Nebraska English Language Arts Standards Correlated to Merit Software Math Programs

Grade 4

Objective	Expectations	Merit Software
<p>By the end of fourth grade, students will write and illustrate equivalences of whole numbers in expanded form, decimals, and fractions.</p>	<ul style="list-style-type: none"> • Write numbers in expanded form, such as $432 = 400 + 30 + 2$. • Represent equivalent fractions with denominators of 2, 4, 5, 8 and 10 ($1/2 = 2/4$) using concrete objects. • Write equivalent decimals ($.4 = .40$). • Write decimals as fractions using denominators of 10 and 100 ($.68 = 68/100$). 	<p>Word Problem Shape-Up</p> <p>Fraction Shape-Up</p>
<p>By the end of fourth grade, students will describe and apply relationships between whole numbers, decimals, and fractions by order, comparison, and operation.</p>	<ul style="list-style-type: none"> • Order and compare whole numbers, common fractions, and decimals using the symbols $<$, $>$, and $=$. • Illustrate mathematical concepts by using objects and drawing pictures or diagrams (subtraction as the opposite of addition and multiplication as repeated addition). • Solve and check a mathematical problem by using the related facts. 	<p>Word Problem Shape-Up</p> <p>Fraction Shape-Up</p>

Grade 8

Objective	Expectations	Merit Software
By the end of eighth grade, students will apply algebraic concepts and operations to solve linear equations and word problems.	<ul style="list-style-type: none"> • Use order of operations to evaluate algebraic expressions for given replacement values of the variables. • Recognize and apply commutative, associative, distributive, inverse, and identity properties, and the properties of zero. 	Word Problem Shape-Up Pre-Algebra Shape-Up Basic Algebra Shape-Up

Grade 12

Objective	Expectations	Merit Software
By the end of twelfth grade, students will solve problems involving equations and inequalities.	<ul style="list-style-type: none"> • Use appropriate methods to solve linear and quadratic equations. 	Word Problem Shape-Up Basic Algebra Shape-Up