

**Virginia Standards of Learning Assessment
Grade 3 Mathematics Performance Level Descriptors**

Fail/Below Basic	Fail/Basic	Pass/Proficient	Pass/Advanced
<p>A student performing at this level should be able to:</p> <ul style="list-style-type: none"> • Read and write numbers up to six digits, and identify a number that is greater than, less than, or equal to a given number. • Identify related fact sentences, and recognize that models can be used to represent fact sentences. • Identify fraction models, and recognize that models can be used to represent addition and subtraction of fractions. • Identify values of coins and bills, and words that represent units of measure. 	<p>A student performing at this level should be able to:</p> <ul style="list-style-type: none"> • Write and represent numbers using models; compare numbers using words; and round numbers to the greatest place value. • Complete related fact sentences; recall some multiplication and division facts; and identify the multiplication and division facts represented by models. • Name fractions represented by models; compare models of fractions with like denominators using words; and identify the sum or difference of proper fractions with like denominators represented by models. 	<p>A student performing at this level should be able to:</p> <ul style="list-style-type: none"> • Interpret the place and value for each digit of a whole number; compare numbers using symbols; and round numbers to a specified place value. • Complete related fact sentences and apply them to solve problems, and recall multiplication and division facts and represent them using models. • Model, write, and compare fractions and mixed numbers using words and symbols. • Add and subtract proper fractions with like denominators, and add and subtract two whole numbers. 	<p>A student performing at this level should be able to:</p> <ul style="list-style-type: none"> • Interpret the place and value of each digit of a number and describe the relationships in the place value system, and construct number sentences using greater than, less than, and equal symbols. • Construct related fact sentences and apply them to solve problems. • Use a variety of models to represent fractions and mixed numbers, addition and subtraction of proper fractions with like denominators, multiplication and division facts, and addition and subtraction of two whole numbers.

Fail/Below Basic	Fail/Basic	Pass/Proficient	Pass/Advanced
<ul style="list-style-type: none"> • Identify plane figures and whether two geometric figures are congruent. • Identify types of graphs. • Describe probability as chance. • Recognize repeating patterns. • Identify the sum of a number and zero is the number, and the product of a number and one is the number. 	<ul style="list-style-type: none"> • Identify models that represent sums and differences of two whole numbers, and add and subtract two whole numbers without regrouping. • Count sets of coins and bills; measure length of an object; and count squares to determine area. • Identify plane and solid geometric figures, lines, line segments, and non-congruent and congruent figures with the same orientation from a set of figures. • Collect and organize data, and read information represented in graphs. • Identify the probabilities associated with impossible and certain events. 	<ul style="list-style-type: none"> • Solve practical problems that require addition or subtraction of proper fractions with like denominators, and solve multistep problems involving estimation, sums, and differences of whole numbers. • Compare values of sets of coins and make change; use appropriate units to measure length, liquid volume, and weight/mass; measure a figure to find perimeter; and find the area of a figure when given the square unit. • Describe, compare, and contrast characteristics of plane and solid geometric figures. • Identify rays, angles, and congruent and non-congruent figures with different spatial orientations. 	<ul style="list-style-type: none"> • Apply estimation skills and integrate a variety of methods to create and solve multistep practical problems that apply knowledge of sums and differences of whole numbers, multiplication and division facts, and addition or subtraction of proper fractions with like denominators. • Compare fractions using a variety of techniques; describe the relationship of improper fractions to mixed numbers; and generalize addition and subtraction of fraction rules by observing patterns. • Compute change using varied techniques; use estimation skills, determine appropriate units of measure, and measure to find length, liquid volume, weight/mass, perimeter and area of figures/objects to solve practical problems.

Fail/Below Basic	Fail/Basic	Pass/Proficient	Pass/Advanced
	<ul style="list-style-type: none"> • Tell time to the nearest five minute increment; read temperature to the nearest degree on a thermometer with an increment of one; and identify the number of minutes in an hour, the number of hours in a day, and the number of months in a year. • Recognize and describe repeating patterns and examples of the identity properties. 	<ul style="list-style-type: none"> • Construct line plots, bar graphs, and picture graphs; interpret information represented in graphs; and identify true statements related to graphs. • List outcomes and identify likelihood of events. • Tell time to the nearest minute; compute elapsed time to the nearest hour; identify equivalent periods of time; and read temperature to the nearest degree on thermometers with varied increments. • Recognize, describe, and extend patterns in various forms, and recognize the use of the identity and commutative properties. 	<ul style="list-style-type: none"> • Compare and contrast characteristics of plane and solid geometric figures, lines, line segments, rays, and angles, and describe the congruence or non-congruence of two figures. • Design data investigations; analyze and interpret information represented on graphs; and formulate questions from graphs. • Analyze outcomes of events and make predictions. • Tell time to the nearest minute; solve practical problems that require computation of elapsed time to the nearest hour or equivalent periods of time; and create models that depict temperature.

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			<ul style="list-style-type: none">• Extend patterns, and translate from one representation to another.• Create and describe examples representing the identity and commutative properties.