

**Virginia Standards of Learning Assessment  
Grade 5 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> <p><i>Reporting Category 1: Number and Number Sense</i></p> <ul style="list-style-type: none"> <li>• round whole numbers</li> <li>• compare and order fractions with like denominators</li> <li>• compare decimals with the same number of place values represented</li> <li>• identify single-digit odd and even numbers</li> </ul> <p><i>Reporting Category 2: Computation and Estimation</i></p> <ul style="list-style-type: none"> <li>• add, subtract, multiply and divide whole numbers to solve equations</li> <li>• add and subtract simple fractions with like denominators</li> <li>• list the order of operations</li> </ul> <p><i>Reporting Category 3: Measurement and Geometry</i></p> <ul style="list-style-type: none"> <li>• identify: <ul style="list-style-type: none"> <li>○ squares,</li> <li>○ rectangles, and</li> <li>○ triangles</li> </ul> </li> <li>• calculate perimeter and area of: <ul style="list-style-type: none"> <li>○ squares and</li> <li>○ rectangles</li> </ul> </li> </ul>	<p>A student performing at this level should be able to:</p> <p><i>Reporting Category 1: Number and Number Sense</i></p> <ul style="list-style-type: none"> <li>• round decimals to the nearest tenth</li> <li>• compare and order decimals</li> <li>• compare and order fractions</li> <li>• use manipulatives to represent equivalent fractions and decimals</li> <li>• identify prime and composite numbers less than 20</li> </ul> <p><i>Reporting Category 2: Computation and Estimation</i></p> <ul style="list-style-type: none"> <li>• add, subtract, multiply and divide whole numbers</li> <li>• add and subtract decimals</li> <li>• add and subtract simple fractions</li> <li>• identify the first step when using the order of operations</li> </ul> <p><i>Reporting Category 3: Measurement and Geometry</i></p> <ul style="list-style-type: none"> <li>• calculate perimeter and area of: <ul style="list-style-type: none"> <li>○ squares,</li> <li>○ rectangles, and</li> <li>○ triangles</li> </ul> </li> <li>• describe parts of a circle</li> <li>• determine elapsed time to the nearest quarter hour</li> </ul>	<p>A student performing at this level should be able to:</p> <p><i>Reporting Category 1: Number and Number Sense</i></p> <ul style="list-style-type: none"> <li>• round decimals to the nearest whole number, tenth, and hundredth</li> <li>• compare and order fractions and decimals</li> <li>• identify fraction/decimal equivalence</li> <li>• describe odd, even, prime, and composite numbers and describe the sum or difference as odd/even</li> </ul> <p><i>Reporting Category 2: Computation and Estimation</i></p> <ul style="list-style-type: none"> <li>• add, subtract, multiply and divide decimals;</li> <li>• add and subtract fractions and mixed numbers</li> <li>• multiply a whole number by a fraction</li> <li>• simplify numerical expressions using order of operations</li> </ul> <p><i>Reporting Category 3: Measurement and Geometry</i></p> <ul style="list-style-type: none"> <li>• find area and perimeter of: <ul style="list-style-type: none"> <li>○ squares,</li> <li>○ rectangles, and</li> <li>○ triangles</li> </ul> </li> <li>• find volume of rectangular solids</li> </ul>	<p>A student performing at this level should be able to:</p> <p><i>Reporting Category 1: Number and Number Sense</i></p> <ul style="list-style-type: none"> <li>• round decimals to the nearest whole number, tenth, and hundredth</li> <li>• represent and compare fraction/decimal relationships, including repeating decimals</li> <li>• explain prime, composite, even, and odd numbers and describe the sum or difference as odd/even</li> </ul> <p><i>Reporting Category 2: Computation and Estimation</i></p> <ul style="list-style-type: none"> <li>• create and solve practical problems with: <ul style="list-style-type: none"> <li>○ whole numbers,</li> <li>○ decimals,</li> <li>○ fractions, and</li> <li>○ mixed numbers</li> </ul> </li> <li>• simplify numerical expressions having parentheses using order of operations</li> </ul> <p><i>Reporting Category 3: Measurement and Geometry</i></p> <ul style="list-style-type: none"> <li>• solve practical problems involving area and perimeter of plane figures</li> <li>• solve practical problems involving volume of rectangular solids</li> </ul>

Fail/Below Basic	Fail/Basic	Pass/Proficient	Pass/Advanced
<ul style="list-style-type: none"> <li>• identify parts of a circle</li> <li>• determine elapsed time to the nearest hour</li> <li>• identify right and straight angles</li> <li>• recognize congruent transformations</li> </ul> <p><i>Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra</i></p> <ul style="list-style-type: none"> <li>• display data in charts and tables</li> <li>• understand that mean is a fair share</li> <li>• recognize patterns in shapes or pictures</li> <li>• identify the variable in an expression</li> </ul>	<ul style="list-style-type: none"> <li>• measure angles</li> <li>• identify:               <ul style="list-style-type: none"> <li>○ acute,</li> <li>○ obtuse,</li> <li>○ right, and</li> <li>○ straight angles</li> </ul> </li> <li>• identify translations and reflections</li> </ul> <p><i>Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra</i></p> <ul style="list-style-type: none"> <li>• identify equally likely events</li> <li>• display data</li> <li>• determine mean and mode</li> <li>• identify patterns</li> <li>• identify variables in expressions and equations</li> </ul>	<ul style="list-style-type: none"> <li>• identify equivalent metric measurements</li> <li>• describe the relationship between parts of a circle</li> <li>• determine elapsed time to the nearest minute</li> <li>• measure angles</li> <li>• classify angles and triangles</li> <li>• identify transformations</li> </ul> <p><i>Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra</i></p> <ul style="list-style-type: none"> <li>• construct:               <ul style="list-style-type: none"> <li>○ charts,</li> <li>○ tables,</li> <li>○ stem-and-leaf plots, and</li> <li>○ line plots</li> </ul> </li> <li>• determine mean, median, mode, and range</li> <li>• subdivide and combine polygons</li> <li>• apply the Fundamental Counting Principle or construct a sample space to determine probability</li> <li>• extend patterns</li> <li>• represent mathematical relationships with a variable in expressions and equations</li> </ul>	<ul style="list-style-type: none"> <li>• use relationships between parts of a circle to determine unknown measures</li> <li>• solve elapsed time practical problems</li> <li>• determine unknown angle measures in triangles</li> <li>• apply transformations</li> <li>• subdivide and combine polygons</li> </ul> <p><i>Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra</i></p> <ul style="list-style-type: none"> <li>• determine probability using Fundamental Counting Principle or sample space</li> <li>• interpret data represented in stem-and-leaf plots and line plots</li> <li>• determine mean, median, mode, and range</li> <li>• solve practical problems using patterns</li> <li>• use variables and equations to represent mathematical relationships</li> <li>• create word problems to represent a given equation</li> </ul>