

**Virginia Standards of Learning Assessments
Grade 4 Mathematics Performance Level Descriptors
Detailed**

Performance Level	Descriptor
Pass/Advanced	The student demonstrates exceptional and consistent attainment of the knowledge and skills necessary to apply key curriculum concepts such as: understanding whole number place value through millions and decimal place value through thousandths and comparing and rounding those numbers; estimating and solving whole number problems using the four basic operations; using models to compare and relate decimals to fractions; solving problems using fractions and decimals; demonstrating the meaning of equality; using appropriate measuring devices and units (customary and metric) to estimate and measure length, liquid volume, and weight/mass; identifying equivalent measures within systems and making ballpark comparisons between systems; analyzing and comparing properties and transformations of plane figures and properties of solid geometric figures; identifying and locating points on a coordinate grid; collecting and organizing data in a variety of formats to interpret results, draw conclusions, and make predictions; predicting and determining the likelihood of outcomes for simple events; recognizing, creating, and extending numerical and geometric patterns.
Pass/Proficient	The student demonstrates satisfactory attainment of the knowledge and skills necessary to apply key curriculum concepts such as: understanding whole number place value through millions and compare and round those numbers; estimating and solving whole number problems using addition, subtraction, multiplication, and division; demonstrating the meaning of equality; understanding decimal place value through thousandths and compare and round decimals; using models to compare and relate decimals to fractions; solving problems using fractions and decimals; using appropriate measuring devices and units (customary and metric) to estimate and measure length, liquid volume, and weight/mass; identifying equivalent measures within systems and make ballpark comparisons between systems; analyzing and comparing properties and transformations of plane figures and properties of solid geometric figures; identifying and locating points on a coordinate grid; collecting and organizing data in a variety of formats to interpret results, draw conclusions, and make predictions; predicting and determining the likelihood of outcomes for a simple event; recognizing, creating, and extending numerical and geometric patterns.
Fail/Basic	The student demonstrates inconsistent attainment of the fundamental knowledge and skills necessary to apply key curriculum concepts such as: understanding whole number place value through millions and decimal place value through thousandths and comparing and rounding those numbers; estimating and solving whole number problems using the four basic operations; using models to compare and relate decimals to fractions; solving problems using fractions and decimals; demonstrating the meaning of equality; using appropriate measuring devices and units (customary and metric) to estimate and measure length, liquid volume, and weight/mass; identifying equivalent measures within systems and making ballpark comparisons between systems; analyzing and comparing properties and transformations of plane figures and properties of solid geometric figures; identifying and locating points on a coordinate grid; collecting and organizing data in a variety of formats to interpret results, draw conclusions, and make predictions; predicting and determining the likelihood of outcomes for simple events; recognizing, creating, and extending numerical and geometric patterns.
Fail/Below Basic	The student demonstrates little if any attainment of the fundamental knowledge and skills necessary to apply key curriculum concepts such as: understanding whole number place value through millions and decimal place value through thousandths and comparing and rounding those numbers; estimating and solving whole number problems using the four basic operations; using models to compare and relate decimals to fractions; solving problems using fractions and decimals; demonstrating the meaning of equality; using appropriate measuring devices and units (customary and metric) to estimate and measure length, liquid volume, and weight/mass; identifying equivalent measures within systems and making ballpark comparisons between systems; analyzing and comparing properties and transformations of plane figures and properties of solid geometric figures; identifying and locating points on a coordinate grid; collecting and organizing data in a variety of formats to interpret results, draw conclusions, and make predictions; predicting and determining the likelihood of outcomes for simple events; recognizing, creating, and extending numerical and geometric patterns.

