

**Virginia Standards of Learning Assessments  
Grade 7 Mathematics Performance Level Descriptors  
Detailed**

<b>Performance Level</b>	<b>Descriptor</b>
<b>Pass/Advanced</b>	The student demonstrates exceptional and consistent attainment of the knowledge and skills necessary to apply key curriculum concepts such as: understanding the relationships among rational numbers; solving practical problems with and without a calculator; using rational numbers and proportions by applying the order and properties of operations; investigating and solving problems involving plane figures, rectangular prisms, and cylinders, including use of the coordinate plane; organizing and interpreting data from problem situations using graphical methods and measures of central tendency; investigating and describing theoretical and experimental probability of events; describing functional relationships using patterns, tables, graphs, and words; representing verbal expressions and sentences in algebraic form; and applying one-step linear equations and inequalities to solve problems in real-world situations.
<b>Pass/Proficient</b>	The student demonstrates satisfactory attainment of the knowledge and skills necessary to apply key curriculum concepts such as: understanding the relationships among rational numbers; solving practical problems with and without a calculator; using rational numbers and proportions by applying the order and properties of operations; investigating and solving problems involving plane figures, rectangular prisms, and cylinders, including use of the coordinate plane; organizing and interpreting data from problem situations using graphical methods and measures of central tendency; investigating and describing theoretical and experimental probability of events; describing functional relationships using patterns, tables, graphs, and words; representing verbal expressions and sentences in algebraic form; and applying one-step linear equations and inequalities to solve problems in real-world situations.
<b>Fail/Basic</b>	The student demonstrates inconsistent attainment of the fundamental knowledge and skills necessary to apply key curriculum concepts such as: understanding the relationships among rational numbers; solving practical problems with and without a calculator; using rational numbers and proportions by applying the order and properties of operations; investigating and solving problems involving plane figures, rectangular prisms, and cylinders, including use of the coordinate plane; organizing and interpreting data from problem situations using graphical methods and measures of central tendency; investigating and describing theoretical and experimental probability of events; describing functional relationships using patterns, tables, graphs, and words; representing verbal expressions and sentences in algebraic form; and applying one-step linear equations and inequalities to solve problems in real-world situations.
<b>Fail/Below Basic</b>	The student demonstrates little if any attainment of the knowledge and skills necessary to apply key curriculum concepts such as: understanding the relationships among rational numbers; solving practical problems with and without a calculator; using rational numbers and proportions by applying the order and properties of operations; investigating and solving problems involving plane figures, rectangular prisms, and cylinders, including use of the coordinate plane; organizing and interpreting data from problem situations using graphical methods and measures of central tendency; investigating and describing theoretical and experimental probability of events; describing functional relationships using patterns, tables, graphs, and words; representing verbal expressions and sentences in algebraic form; and applying one-step linear equations and inequalities to solve problems in real-world situations.