



Math Teachers Press, Inc.

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VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO MOVING WITH MATH® MIDDLE/HIGH (MH) GRADE 7

		MH1 <i>Number Sense, Reasoning & Data</i> Lesson Plan/ Student Book Skill Builders (SB)	MH2 <i>Fractions & Decimals</i> Lesson Plan/ Student Book Skill Builders (SB)	MH3 <i>Percent & Probability</i> Lesson Plan/ Student Book Skill Builders (SB)	MH4 <i>Geometry & Measurement</i> Lesson Plan/ Student Book Skill Builders (SB)	MH5 <i>Algebra</i> Lesson Plan/ Student Book Skill Builders (SB)
	NUMBER AND NUMBER SENSE					
7.1	The student will					
a.	investigate and describe the concept of negative exponents for powers of ten;	30 SB: 57-2				
b.	compare and order numbers greater than zero written in scientific notation;					
c.	compare and order rational numbers;		9, 11, 44, 47, 55 SB: 11-2, 18-4, 65-1			5 SB: 48-2
d.	determine square roots of perfect squares; and	23			33 SB: 54-1	
e.	identify and describe absolute value of rational numbers.					9, 10 SB: 48-4, 50-6
	COMPUTATION AND ESTIMATION					

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b.	determine unknown side lengths or angle measures of quadrilaterals.				22 SB: 52-3	
7.7	The student will apply translations and reflections of right triangles or rectangles in the coordinate plane.				14, 16 SB: 49-1, 53-3	
	PROBABILITY AND STATISTICS					
7.8	The student will					
a.	determine the theoretical and experimental probabilities of an event; and			61-68, 74 SB: 47-1, 47-2, 47-4, 47-6		
b.	investigate and describe the difference between the experimental probability and theoretical probability of an event.			61, 63, 74 SB: 47-6		
7.9	The student, given data in a practical situation, will					
a.	represent data in a histogram;	68				
b.	make observations and inferences about data represented in a histogram; and	68				
c.	compare histograms with the same data represented in stem-and-leaf plots, line plots, and circle graphs.					
	PATTERNS, FUNCTIONS, AND ALGEBRA					

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7.10	The student will					
a.	determine the slope, m , as rate of change in a proportional relationship between two quantities and write an equation in the form $y = mx$ to represent the relationship;					77
b.	graph a line representing a proportional relationship between two quantities given the slope and an ordered pair, or given the equation in $y = mx$ form, where m represents the slope as rate of change;					SB: 60-5
c.	determine the y -intercept, b , in an additive relationship between two quantities and write an equation in the form $y = x + b$ to represent the relationship;					
d.	graph a line representing the additive relationship between two quantities given the y -intercept and an ordered pair, or given the equation in the form $y = x + b$ where b represents the y -intercept; and					
e.	make connections between and among representations of a proportional or additive relationship between two quantities using verbal descriptions, tables, equations, and graphs.					60-64, 68 SB: 60-1

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7.11	The student will evaluate algebraic expressions for given replacement values of the variables.					58, 59 SB: 59-2
7.12	The student will solve two-step linear equations in one variable, including practical problems that require the solution of a two-step linear equation in one variable.					46-48, 57 SB: 50-4
7.13	The student will solve one- and two-step inequalities in one variable, including practical problems, involving addition, subtraction, multiplication, and division, and graph the solution on a number line.					53-55 SB: 50-5