



Math Teachers Press, Inc.

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WASHINGTON STATE MATHEMATICS STANDARDS CORRELATED TO *MOVING WITH ALGEBRA GRADE 7*

		Part A Student Book Skill Builders (SB)	Part B Student Book Skill Builders (SB)
7.1. RATIONAL NUMBERS AND LINEAR EQUATIONS (Numbers, Operations, Algebra)			
7.1.A	Compare and order rational numbers using the number line, lists, and the symbols $<$, $>$, or $=$.	6, 7, 64, 89, 90, 135, 136 SB: 5, 6, 54, 67- 69, 112, 113, 144	
7.1.B	Represent addition, subtraction, multiplication, and division of positive and negative integers visually and numerically.	68-78 SB: 56-60	244-248 SB: 202, 203, 205, 206
7.1.C	Fluently and accurately add, subtract, multiply, and divide rational numbers.	93-96, 98-102, 107-115 SB: 73-83, 89-99	
7.1.D	Define and determine the absolute value of a number.		242, 243 SB: 201
7.1.E	Solve two-step linear equations.		260, 261, 273, 274 SB: 216-218
7.1.F	Write an equation that corresponds to a given problem situation, and describe a problem situation that corresponds to a given equation.	55, 58, 59, 105, 159 SB: 45, 46, 52, 53, 128, 129	252, 273, 274, 276, 277, 279, 280 SB: 208, 245
7.1.G	Solve single- and multi-step word problems involving rational numbers and verify the solutions.	105, 106, 118, 119 SB: 81, 86-88, 101	273-277, 279, 280 SB: 187-189, 217, 218, 222-224, 245, 246
7.2. PROPORTIONALITY AND SIMILARITY (Operations, Geometry/Measurement, Algebra)			

		Part A Student Book Skill Builders (SB)	Part B Student Book Skill Builders (SB)
7.2.A	Mentally add, subtract, multiply, and divide simple fractions, decimals, and percents.	104, 105, 106, 117, 144, 146, 152, 172 SB: 89, 95, 96, 99, 124	
7.2.B	Solve single- and multi-step problems involving proportional relationships and verify the solutions.	122, 169, 171 SB: 102, 134	222, 225, 275- 278 SB: 187-189, 222, 223, 246
7.2.C	Describe proportional relationships in similar figures and solve problems involving similar figures.		225 SB: 189, 190
7.2.D	Make scale drawings and solve problems related to scale.		226, 227 SB: 191, 192
7.2.E	Represent proportional relationships using graphs, tables, and equations, and make connections among the representations.	SB: 102	221, 222 SB: 196, 197
7.2.F	Determine the slope of a line corresponding to the graph of a proportional relationship and relate slope to similar triangles.		321, 322 SB: 241, 242
7.2.G	Determine the unit rate in a proportional relationship and relate it to the slope of the associated line.		322, 332 SB: 254
7.2.H	Determine whether or not a relationship is proportional and explain your reasoning.		221
7.2.I	Solve single- and multi-step problems involving conversions within or between measurement systems and verify the solutions.		233, 234, 316 SB: 198, 199, 254
	7.3. SURFACE AREA AND VOLUME (Geometry/Measurement)		
7.3.A	Determine the surface area and volume of cylinders using the appropriate formulas and explain why the formulas work.		214
7.3.B	Determine the volume of pyramids and cones using formulas.		
7.3.C	Describe the effect that a change in scale factor on one attribute of a two- or three-dimensional figure has on other attributes of the figure, such as the side or edge length, perimeter, area, surface area, or volume of a geometric figure.		SB: 183
7.3.D	Solve single- and multi-step word problems involving surface area or volume and verify the solutions.		213 SB: 180-182

		Part A Student Book Skill Builders (SB)	Part B Student Book Skill Builders (SB)
	7.4. PROBABILITY AND DATA (Data/Statistics/Probability)		
7.4.A	Represent the sample space of probability experiments in multiple ways, including tree diagrams and organized lists.		
7.4.B	Determine the theoretical probability of a particular event and use theoretical probability to print experimental outcomes.		
7.4.C	Describe a data set using measures of center (median, mean, and mode) and variability (maximum, minimum, and range) and evaluate the suitability and limitations of using each measure for different situations.	56, 57 SB: 47-50	
7.4.D	Construct and interpret histograms, stem-and-leaf plots, and circle graphs.	179 SB: 101	
7.4.E	Evaluate different displays of the same data for effectiveness and bias and explain reasoning.		
	7.5. ADDITIONAL KEY CONTENT (Numbers, Algebra)		
7.5.A	Graph ordered pairs of rational numbers and determine the coordinates of a given point on the coordinate plane.		201, 202, 310 SB: 168
7.5.B	Write the prime factorization of whole numbers greater than 1, using exponents when appropriate.	20, 21 SB: 15, 16	
	7.6. REASONING, PROBLEM SOLVING AND COMMUNICATION		
7.6.A	Analyze a problem situation to determine the question(s) to be answered.	32, 54	273
7.6.B	Identify relevant, missing, and extraneous information related to the solution to a problem.	32, 54	273, 274
7.6.C	Analyze and compare mathematical strategies for solving problems, and select and use one or more strategies to solve a problem.	33, 34, 55, 58	273
7.6.D	Represent a problem situation, describe the process used to solve the problem, and verify the reasonableness of the solution.	33, 34, 118	231
7.6.E	Communicate the answer(s) to the question(s) in a problem using appropriate representations, including symbols and informal and formal mathematical language.	34, 58	307
7.6.F	Apply a previously used problem-solving strategy in a new context.	35, 144	322

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7.6.G	Extract and organize mathematical information from symbols, diagrams, and graphs to make inferences, draw conclusions, and justify reasoning.	113, 129, 179	315
7.6.H	Make and test conjectures based on data (or information) collected from explorations and experiments.	35, 85, 86, 122 SB: 142, 143	199, 245-248, 307-309 SB: 203, 205, 206, 234, 235