		CKP 7/06					
	🐨 Math Teachers Press, I	nc.					
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(LLS CORRELATI	ed to <i>moving</i>				
	WITH ALGEBRA GRADE 8						
		Part A	Part B				
		Student Book Skill Builders (SB)	Student Book Skill Builders (SB)				
	STANDARD 1: ALGEBRAIC REASONING						
	The student will graph and solve linear equations and inequalities in problem-solving situations.						
1.	Equations						
a.	Model, write, and solve 2-step linear equations using a variety of methods.		260, 262, 281 SB: 216-218, 245				
b.	Graph and interpret the solution to linear equations on a number line with one variable and on a coordinate plane with two variables.		232, 281, 310, 312-314, 316, 317, 322, 324, 326, 327 SB: 197, 236-239 242, 243, 249, 254				
C.	Predict the effect on the graph of a linear equation when the slope changes (e.g., make predictions from graphs, identify the slope in the equation $y = mx + b$ and relate to a graph).		321-328 SB: 241-243, 249 254				
2.	Inequalities						
a.	Model, write, and solve 1-step and 2-step linear inequalities with one variable.		282-287 SB: 225				
b.	Graph the solution to linear inequalities with one variable on a number line.		281				
	STANDARD 2. NUMBER SENSE						
	The student will use numbers and number relationships to solve problems.						
1.	Rational numbers and proportional reasoning						
a.	Compare and order rational numbers (positive and negative integers, fractions, decimals) in real-life situations.	6, 7, 64, 88-90, 135, 136 SB: 5, 6, 54, 67- 69, 112, 113, 139, 140, 144	241, 242 SB: 200, 201, 204				

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D.	use the basic operations on rational numbers to solve	32-34, 54, 55, 58, 50, 78, 105, 106	244-248, 274-280 SP-202 206 217
	multiplying whole numbers by a fraction or a decimal less	116 118 119	36. 202-200, 217, 218, 222-224
	than 1)	145 146 159	245 246
		160	210, 210
		SB: 27, 28, 44-46,	
		51-53, 87, 88,	
		101, 119, 128,	
		129	
c.	Apply ratios and proportions to solve problems.	122	222, 225-227,
		SB: 102	275-278
			SB: 187-189, 191-
			193, 222, 223, 246
2	Fxponents		240
	Exponentes		
a.	Use the rules of exponents, including integer exponents, to	16-19	295-303
	solve problems (e.g., $7^2 \bullet 7^3 = 7^5$).	SB: 13, 14	SB: 228-232, 247,
			252
b.	Represent and interpret large numbers and numbers less than	22, 23, 25	215, 294-297
	one in exponential and scientific notation.	SB: 17, 18	SB: 229, 252
c.	Use estimation strategies (e.g., rounding) to describe the	8, 9, 24, 89-91,	
	magnitude of large numbers and numbers less than one.	129, 130, 132,	
		133	
		SB: 7, 8, 67-70, 104-107, 109	
		104 107, 103	
	STANDARD 3: GEOMETRY		
	The student will use geometric properties to solve problems		
	in a variety of contexts.		
1.	Construct models, sketch (from different perspectives), and		192, 193, 212-
	classify solid figures such as rectangular solids, prisms,		214
	cones, cylinders, pyramids, and combined forms (e.g., draw a		SB: 161, 162, 182
	figure that could result from making 1, 2, or 3 cuts in a given		
	solid).		
2.	Develop the Pythagorean Theorem and apply the formula to		218, 219
	find the length of missing sides of a right triangle and the		2R: 186
	STANDARD 4. MEASUREMENT		
	The student will use measurement to solve problems in a		
	variety of contexts.		
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		Part A Student Book Skill Builders (SB)	Part B Student Book Skill Builders (SB)
1.	Estimate and find the surface area and volume in real world settings (e.g., unwrap a box to explore surface area; use rice, 1-inch cubes, centimeter cubes, cups to estimate the volume of boxes, irregular shaped objects, containers).		212-214 SB: 180-182
2.	Apply knowledge of ratio and proportion to solve relationships between similar geometric figures (e.g., build a model of a 3-dimensional object to scale).		224-227 SB: 189, 191, 192
3.	Formulas		
а.	Select and apply appropriate formulas for given situations: – an equation (e.g., d = rt, l = prt) – measurement problems (e.g., p = 21 + 2w, v = lwh)	178 SB: 138	207-214, 231- 234, 279, 280, 311-316 SB: 176, 177, 179- 183, 196, 197, 224, 236-239, 254
b.	Find the area of a "region of a region" for simple composite figures (e.g., area of a rectangular picture frame).		
	STANDARD 5: DATA ANALYSIS AND STATISTICS		
	The student will use data analysis and statistics to interpret data in a variety of contexts.		
1.	Select and apply appropriate formats (e.g., line plots, bar graphs, stem-and-leaf plots, scatter plots, histograms, circle graphs) to display collected data.	179 SB: 101	
2.	Measures of central tendency		
	a. Find the measures of central tendency (mean, median and mode) of a set of data and understand why a specific measure provides the most useful information in a given context.	56, 57 SB: 47-50	
	b. Compute the mean, median, and mode for data sets and understand how additional data in a set may affect the measures of central tendency.	56, 57 SB: 47-50	
3.	Determine how samples are chosen (random, limited, biased) to draw and support conclusions about generalizing a sample to a population (e.g., is the average height of a men's college basketball team a good representative sample for height predictions?).		