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CKP 7/06

OKLAHOMA PRIORITY ACADEMIC STUDENT SKILLS CORRELATED TO *MOVING WITH ALGEBRA GRADE 7*

		Part A Student Book Skill Builders (SB)	Part B Student Book Skill Builders (SB)
	STANDARD 1: ALGEBRAIC REASONING		
	The student will use number properties to simplify and solve simple linear equations.		
1.	Identify and apply the commutative, associative, distributive, inverse and identity properties (e.g., n + 0 = n, 2 (x + 3) = 2x + 6).	10-15, 29, 42, 113-115 **SB:** 9-12, 23, 24, 35, 36, 96-98	244, 245, 263-265, 268, 269 **SB:** 203, 209, 210, 220
2.	Use a variety of methods to model and solve one-step linear equations (e.g., use properties of equality, graph ordered pairs with paper and pencil, use graphing calculators).		201, 202, 231-234, 253-259, 275-278, 310-315 **SB:** 168, 196, 197, 211-215, 222, 223, 236-239, 246, 254
	STANDARD 2: NUMBER SENSE		
	The student will use numbers and number relationships to acquire basic facts and determine the reasonableness of results.		
1.	Integers		
a.	Compare and order positive and negative integers and describe their use in real-life situations (e.g., temperature, sea level, stock market fluctuations, football yardage).	63-67 **SB:** 54, 55, 139	240, 241 **SB:** 200, 204
b.	Use the basic operations on integers to solve problems.	68-78 **SB:** 56-60	244-248 **SB:** 202-206
2.	Ratio, proportion and percents		
a.	Demonstrate the concept of ratio and proportion with models (e.g., similar geometric shapes, scale models).	122 **SB:** 102	220-222, 224-227, 275-278 **SB:** 187-189, 191, 192, 222, 223, 246

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b.	Set up equivalent ratios, estimate and solve problems using ratio, proportions, and percents including percents greater than 100 and less than 1 (e.g., determine missing sides of similar figures, heart rate per minute, cost per pound, pay to hours worked overtime).	122, 169-172 **SB:** 102, 133-135	222, 225-227, 275-278 **SB:** 187-189, 191, 192, 222, 223, 246
c.	Solve percent application problems (e.g., discounts, tax, finding the missing value of percent/part/whole).	173-179 **SB:** 136-138	
3.	Exponents		
a.	Analyze and develop generalizations of exponential patterns, including zero as an exponent, using manipulatives and calculators (e.g., model getting paid a penny the first day, 2 cents the second day, 4 cents the third day...).	16, 17, 22, 23, 25 **SB:** 13, 17, 18	215, 294-297, 300, 301, 303 **SB:** 229, 247, 252
b.	Build and recognize models of multiplies to investigate squares and square roots (e.g., build rectangular arrays for numbers 1 to 100 and note which can be represented as squares).	16	215, 216 **SB:** 184
c.	Estimate the square root of a number (e.g., between two consecutive integers).		217 **SB:** 185
	STANDARD 3: GEOMETRY		
	The student will apply the properties and relationships of plane geometry in a variety of contexts.		
1.	Classifying geometric figures		188, 189 **SB:** 156
a.	Classify triangles according to their sides and angles.		191 **SB:** 158, 159
b.	Classify quadrilaterals according to their sides and angles (e.g., determine whether all squares are rectangles).		195, 200 **SB:** 163, 167
2	Identify and compare bisectors, interior, exterior, and vertical angles (e.g., using graph paper, software, protractors to measure angles between parallel lines with a transversal).		
3	Rectangular coordinate system		
a.	**a.** Locate points on a plane in all four quadrants.		201, 202, 310 **SB:** 168
b.	**b.** Identify geometric transformations of figures (rotations, translations, and reflections).		204 **SB:** 171, 172
	STANDARD 4: MEASUREMENT		
	The student will use measurement to solve problems in a variety of contexts.		

		Part A Student Book Skill Builders (SB)	Part B Student Book Skill Builders (SB)
1.	Area and perimeter		206, 207, 209, 210 **SB:** 174, 175, 178, 183
a.	Develop area and perimeter concepts (e.g., use grids to estimate the area of irregular shapes).		208-211 **SB:** 176, 177, 179
b.	Apply formulas to solve problems involving perimeter (circumference) and area of polygons and circles.		
2.	Customary and metric measurements		
a.	Select and use appropriate tools for measurements in practical applications and make reasonable estimates of measurements in a particular situation using the appropriate unit.		228-230 **SB:** 193-195, 253
b.	Use estimates to relate customary and metric measurements to each other.		233, 234 **SB:** 198, 199
	STANDARD 5: DATA ANALYSIS AND PROBABILITY		
	The student will use probability to formulate and justify predictions from a set of data.		
1.	Use data from a sample to predict possible outcomes and compute simple probabilities as fractions, decimals or percents (e.g., use data from lists, tree diagrams, frequency distribution tables, area models).		
2.	Determine the probability of an event involving "or", "and", or "not" (e.g., on a spinner with1 blue, 2 red and 2 yellow sections, what is the probability of getting a red or a yellow?).		
3.	Find all possible combinations and permutations involving a limited number of variables.		