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Georgia's K-12 Mathematics Standards Correlated to Moving with Math Extensions Grade 6					
		Student Book Part A	Skill Builders Part A	Student Book Part B	Skill Builders Part B
	NUMERICAL REASONING – multiplication and division of whole numbers and fractions, and all four operations with decimal numbers				
6.NR.1:	Solve relevant, mathematical problems involving operations with whole numbers, fractions, and decimal numbers.				
6.NR.1.1	Fluently add and subtract any combination of fractions to solve problems.	24-27	15-1, 16- 1, 16-2, 17-1, 17- 2, 18-1, 45-2		
6.NR.1.2	Multiply and divide any combination of whole numbers, fractions, and mixed numbers using a student-selected strategy. Interpret products and quotients of fractions and solve word problems.	28-30	19-1, 19- 2, 20-1 to 20-3, 45-1, 45- 2		
6.NR.1.3	Perform operations with multi-digit decimal numbers fluently using models and student-selected strategies.	37-41	26-1 to 26-3, 27- 1, 27-2, 28-1, 28- 2, 45-3		
6.NR.2:	Apply operations with whole numbers, fractions and decimals within relevant applications.				
6.NR.2.1	Describe and interpret the center of the distribution by the equal share value (mean).	16	46-1	91	46-2, 46-3
6.NR.2.2	Summarize categorical and quantitative (numerical) data sets in relation to the context: display the distributions of quantitative (numerical) data in plots on a number line, including dot plots, histograms, and box plots and display the distribution of categorical data using bar graphs.	57, 58	47-2	93	59-4, 59-5
6.NR.2.3	Interpret numerical data to answer a statistical investigative question created. Describe the distribution of a quantitative (numerical) variable collected, including its center, variability, and overall shape.			95	60-1

		Student Book Part A	Skill Builders Part A	Student Book Part B	Skill Builders Part B
6.NR.2.4	Design simple experiments and collect data. Use data gathered from realistic scenarios and simulations to determine quantitative measures of center (median and/or mean) and variability (interquartile range and range). Use these quantities to draw conclusions about the data, compare different numerical data sets, and make predictions.	57		92	59-1, 59-2
6.NR.2.5	Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.			94	
6.NR.2.6	Describe the impact that inserting or deleting a data point has on the mean and the median of a data set. Create data displays using a dot plot or box plot to examine this impact.				
6.NR.3:	Solve a variety of problems involving whole numbers and their opposites; model rational numbers on a number line to describe problems presented in relevant, mathematical situations.				
6.NR.3.1	Identify and compare integers and explain the meaning of zero based on multiple authentic situations.	60	53-5		
6.NR.3.2	Order and plot integers on a number line and use distance from zero to discover the connection between integers and their opposites.	61		65	53-3
6.NR.3.3	Recognize and explain that opposite signs of integers indicate locations on opposite sides of zero on the number line; recognize and explain that the opposite of the opposite of a number is the number itself.	64, 66			53-2, 53-6
6.NR.3.4	Write, interpret, and explain statements of order for rational numbers in authentic, mathematical situations. Compare rational numbers, including integers, using equality and inequality symbols.	22, 36, 62	13-1, 24- 1, 53-1		
6.NR.3.5	Explain the absolute value of a rational number as its distance from zero on the number line; interpret absolute value as distance for a positive or negative quantity in a relevant situation.			67	53-4
6.NR.3.6	Distinguish comparisons of absolute value from statements about order.			67	56-6
6.NR.4:	Solve a variety of contextual problems involving ratios, unit rates, equivalent ratios, percentages, and conversions within measurement systems using proportional reasoning.				
6.NR.4.1	Explain the concept of a ratio, represent ratios, and use ratio language to describe a relationship between two quantities.	53	12-5		
6.NR.4.2	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.				

		Student Book Part A	Skill Builders Part A	Student Book Part B	Skill Builders Part B
6.NR.4.3	Solve problems involving proportions using a variety of student-selected strategies.	54	12-3	80	52-2, 52-3
6.NR.4.4	Describe the concept of rates and unit rate in the context of a ratio relationship.			81	52-1
6.NR.4.5	Solve unit rate problems including those involving unit pricing and constant speed.			81	
6.NR.4.6	Calculate a percent of a quantity as a rate per 100 and solve everyday problems given a percent.			82, 83	51-1 to 51-3, 51-5
6.NR.4.7	Use ratios to convert within measurement systems (customary and metric) to solve authentic problems that exist in everyday life.	55, 56	36-2, 36- 3, 41-1, 41-2, 42- 1, 42-2		
	GEOMETRIC & SPATIAL REASONING – area of polygons, volume of right rectangular prisms, surface area of 3-D figures				
6.GSR.5:	Solve relevant problems involving area, surface area, and volume.				
6.GSR.5. 1	Explore area as a measurable attribute of triangles, quadrilaterals, and other polygons conceptually by composing or decomposing into rectangles, triangles, and other shapes. Find the area of these geometric figures to solve problems.			85, 86	38-4, 38-5
6.GSR.5. 2	Given the net of three-dimensional figures with rectangular and triangular faces, determine the surface area of these figures.			90	39-3 to 39-5
6.GSR.5. 3	Calculate the volume of right rectangular prisms with fractional edge lengths by applying the formula, $V =$ (area of base) x (height).	51	39-1, 39- 6	89	
	PATTERNING & ALGEBRAIC REASONING – numerical and algebraic expressions, factors, multiples, algebraic expressions, plotting points in all four quadrants, rational numbers on a number line, polygons in the coordinate plane				
6.PAR.6:	Identify, write, evaluate, and interpret numerical and algebraic expressions as mathematical models to explain authentic situations.				
6.PAR.6. 1	Write and evaluate numerical expressions involving rational bases and whole-number exponents.	5	4-2, 4-3		
6.PAR.6. 2	Determine greatest common factors and least common multiples using a variety of strategies to make sense of applicable problems.	21			
6.PAR.6. 3	Write and read expressions that represent operations with numbers and variables in realistic situations.			72, 73	
6.PAR.6. 4	Evaluate expressions when given values for the variables, including expressions that arise in everyday situations.		56-4, 56- 5		
6.PAR.6. 5	Apply the properties of operations to identify and generate equivalent expressions.	7, 8	5-1, 5-2	78	5-3

		Studer Book Part	nt Skill K Builders A Part A	Student Book Part B	Skill Builders Part B
6.PAR.7:	Write and solve one-step equations and inequalities as mathematical models to explain authentic, realistic situations.				
6.PAR.7. 1	Solve one-step equations and inequalities involving variables when values for the variables are given. Determine whether an equation and inequality involving a variable is true or false for a given value of the variable.			75, 76	56-2, 56- 3, 56-7
6.PAR.7. 2	Write one-step equations and inequalities to represent and solve problems; explain that a variable can represent an unknown number or any number in a specified set.		45-4, 45- 6	74, 75	56-1
6.PAR.7. 3	Solve problems by writing and solving equations of the form $x \pm p = q$, $px = q$ and $x/p_{\chi} = q$ for cases in which p, q and x are all nonnegative rational numbers.			75	56-2, 56- 3, 56-7
6.PAR.7. 4	Recognize and generate inequalities of the form $x > c$, $x > c$, $x < c$, or $x < c$ to explain situations that have infinitely many solutions; represent solutions of such inequalities on a number line.			79	57-1
6.PAR.8:	Graph rational numbers as points on the coordinate plane to represent and solve contextual, mathematical problems; draw polygons using the coordinates for their vertices and find the length of a side of a polygon.				
6.PAR.8. 1	Locate and position rational numbers on a horizontal or vertical number line; find and position pairs of integers and other rational numbers on a coordinate plane.	61, 63	44-2, 44- 6	65	53-3
6.PAR.8. 2	Show and explain that signs of numbers in ordered pairs indicate locations in quadrants of the coordinate plane and determine how two ordered pairs may differ based only on the signs.	63	44-2, 44- 3		
6.PAR.8. 3	Solve problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same x-coordinate or the same y-coordinate.		44-6	87	38-11
6.PAR.8. 4	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same x-coordinate or the same y- coordinate.			87	38-11