Fourth Grade Compacted Mathematics Newsletter

Marking Period 2, Part 2

MT	Learning Goals by Measurement Topic (MT) Students will be able to			
Number and Operations - Fractions	 multiply a fraction by a whole number. solve word problems involving multiplying a fraction by a whole number. 			
Measurement and Data	 measure and sketch angles using a protractor. compose and decompose angles. use addition, subtraction, and multiplication of fractions to solve word problems involving distance, time, volume, mass, and money. 			
Geometry	 draw and identify lines, line segments, perpendicular lines, and parallel lines. draw and identify lines of symmetry in two-dimensional shapes. draw and identify angles, including reflex angles (more than 180°). classify triangles and other two-dimensional shapes based on angle and line properties. 			

	Thinking and Academic Success Skills (TASS)							
		<u>It is</u>	In mathematics, students will					
:	Elaboration	adding details that expand, enrich, or embellish.	 choose a strategy to multiply a fraction by a whole number and justify the choice. decide what worked and what didn't work with a particular strategy when solving word problems. 					
Effort/Motivation/	Persistence	working diligently and applying effective strategies to achieve a goal or solve a problem; continuing in the face of obstacles and competing pressures.	 solve challenging fraction and geometric measurement problems using various strategies that promote a thorough understanding of concepts. 					

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Marking Period 2, Part 2

	Learning Experiences by Measurement Topic (MT)					
	MT		1	In school, your child will		At home, your child can
Number and	Operations -	Fractions	•	apply knowledge of unit fractions $(\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$ etc.) to use repeated addition to show multiplication by a whole number. Example: $\frac{1}{2} \times 4 = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{4}{2}$ multiply a fraction by a whole number to solve word problems and explain the answer.	•	ask questions to solve word problems that involve multiplying a fraction by a whole number. Example: In your family there are three children. Each child read 5/6 of an hour. How many total hours did everyone read?
	Measurement and Data		•	use a protractor to measure different types of angles. draw angles of a given measurement. discuss different ways to compose and decompose angles. Example: There are many ways I could compose a 90° angle. I could use any two angles that add up to 90°; like 30° and 60°, 10° and 80°, or 1° and 89°. If I use 3 or more angles, there are even more angle combinations whose sum is 90°. solve real world problems involving measurement and fractions.	•	use a protractor to measure the angles of plane figures around the house. Draw some angles and measure them. Create a picture using the angles. ask questions to solve word problems that involve fractions and measurement. Example: Bus drivers work 4 I/4 hours per day. How long do they work in five days?
	Geometry		•	use shapes, geoboards (a wooden board with pegs) and rubber bands, pattern blocks, maps, and other materials to identify, analyze, and create geometric features. identify geometric features in solid figures.	•	identify real-world examples of angles, lines, quadrilaterals and triangles. play "Guess My Rule." In this game, collect and sort everyday items and guess the rule for sorting them according to their line or angle properties. Then reverse roles.