

Fourth Grade Mathematics Newsletter

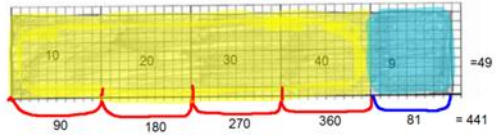
Marking Period 2, Part 2

MT	Learning Goals by Measurement Topic (MT) <u>Students will be able to . . .</u>
Number and Operations in Base Ten	- divide a whole number (up to four digits) by a one-digit divisor. - explain the meaning of a remainder in a division problem. - illustrate and explain division calculations by using equations, rectangular arrays, and/or area models.
Measurement and Data	- use addition, subtraction, multiplication, and division to solve word problems involving distance, time, mass, and money. - use the area and perimeter formulas for rectangles to solve real world problems.
Operations and Algebraic Thinking	- solve multi-step word problems that include addition, subtraction, multiplication, and division. Determine if answers are reasonable, including problems that have remainders. - use variables to represent unknown numbers.

Thinking and Academic Success Skills (TASS)		
	<u>It is . . .</u>	<u>In mathematics, students will . . .</u>
Elaboration	adding details that expand, enrich, or embellish.	- expand on the knowledge of division to include remainders and their meaning in the context of a problem. - complete word problems that expand on previously learned concepts such as addition and subtraction.
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.	- attempt more complex and thought-provoking word problems. - develop multiple strategies to solve division problems in order to overcome obstacles.

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Learning Experiences by Measurement Topic (MT)		
MT	 In school, your child will . . .	 At home, your child can . . .
Number and Operations in Base Ten	divide whole numbers using knowledge of place value, arrays, and area models. Array $72 \div 5 = 14 \text{ R}2$  Area Model $441 \div 9 = 49$ 	- practice multiplication and division facts from 0 – 10. - share strategies for solving a division problem and practice. Explain the difference between the strategies. - use manipulatives such as buttons, coins, blocks to model and solve division problems. Discuss what the remainder means.
Measurement and Data	- solve multi-step word problems involving distance, time, mass, and money. <u>Example:</u> A school day begins at 8:50 a.m. and ends at 3:05 p.m. How long is the day?  - solve multi-step area and perimeter word problems that involve variables. <u>Example:</u> Use what you know about perimeter to determine the area of this park. 	- create and solve real life word problems involving work schedules, recipes, distance traveled, or money spent. <u>Example:</u> How many hours were you awake today? How much did dinner cost? - practice using formulas to find area and perimeter of rectangles around the home (tables, stove, refrigerator, bed, etc). Explain why the answer is correct and reasonable.
Operations and Algebraic Thinking	explain the meaning of a remainder while collaboratively solving division word problems.	create and solve word problems involving familiar objects from home. Explain why the answers are correct and reasonable.
Glossary	divisor: a number by which another number is to be divided. variable: a symbol (often a letter) used to represent an unknown amount.	

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