Fourth Grade Compacted Mathematics Newsletter
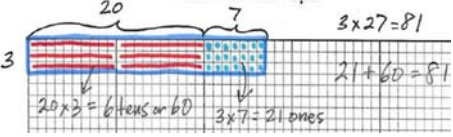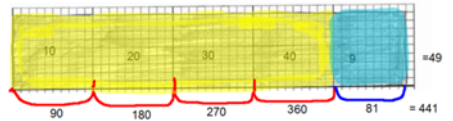### Marking Period 1, Part 2

MT	Learning Goals by Measurement Topic (MT) Students will be able to . . .
Number and Operations in Base Ten	• multiply a four-digit whole number by a one-digit whole number, and multiply one-digit by two-digit numbers, using various strategies. • divide a whole number (up to four digits) by a one-digit divisor. • illustrate and explain multiplication and division calculations by using equations, rectangular arrays, and/or area models. • explain the meaning of a remainder in a division problem.
Measurement and Data	• find the area and perimeter of rectangles by using formulas. • describe the relationship among larger and smaller units within the metric and within the customary systems of measurement. • convert (change) from larger to smaller units within a measurement system. • solve word problems involving measurement.
Operations and Algebraic Thinking	• solve multi-step word problems that include addition, subtraction, multiplication, and division. Determine if answers are reasonable, including problems resulting in answers with remainders. • use variables to represent unknown numbers.

Thinking and Academic Success Skills (TASS)		
	It is . . .	In mathematics, students will . . .
Synthesis	putting parts together to build understanding of a whole concept or to form a new or unique whole.	• use knowledge of the mathematical operations (+, -, x, ÷) to solve word problems. • connect previous knowledge of basic facts to solve addition and subtraction problems using numbers up to one million. • apply prior knowledge of division to include remainders and their meaning in the context of a problem.
Collaboration	working effectively and respectfully to reach a group goal.	• solve challenging measurement problems in small groups. • attempt more complex and thought-provoking word problems with peers.

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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		• multiply and divide whole numbers using various strategies. Multiplication Area Model Division Area Model		• practice math facts without using paper and pencil. • create multiplication and division problems and solve them using the area model.
Measurement and Data		• solve multi-step word problems involving distance, time, mass, and money. • 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 authentic real life word problems involving work schedules, recipes, distance traveled, or money spent. • discuss the relationship between area and perimeter. • engage in discussions about how and when to use multiplication to compare measurement. <u>Example:</u> If the TV is 75 centimeters wide, what is the width in millimeters?
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 answer is correct and reasonable.

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