Fourth Grade Compacted Mathematics Newsletter
Marking Period 4, Part 1

MT	Learning Goals by Measurement Topic (MT) *Students will be able to . . .*
Number and Operations in Base Ten	• use equations (number sentences with an equal sign), rectangular arrays, or area models to divide a 4-digit number by a 2-digit number. • use estimation strategies based on place value, properties of operations, and the relationship between multiplication and division to solve division problems. • reason about the relationships among dividends, divisors, and quotients. *Examples:* $25 \div 5 = 5$ (quotient), dividend, divisor; $6\overline{)42}$ with quotient 7, divisor, dividend • solve problems involving four operations (+, -, ×, ÷).
Number and Operations-Fractions	• use equivalent fractions as a strategy to add and subtract fractions with unlike denominators. • solve word problems involving addition and subtraction of fractions with unlike denominators. • apply understanding of factors and multiples to generate equivalent fractions and add fractions with unlike denominators. • reason about relationships among numerators and denominators to add fractions with unlike denominators.

Thinking and Academic Success Skills (TASS)		
	It is . . .	In mathematics, students will . . .
Flexibility	being open and responsive to new and diverse ideas and strategies and moving freely among them.	• make the connection that knowledge of equivalent fractions helps adding and subtracting fractions with unlike denominators easier. • use a variety of methods to add and subtract fractions with unlike denominators.

Intellectual Risk Taking	accepting uncertainty or challenging the norm to reach a goal.	• generate multiple ways to find solutions to word problems.
		• make adjustments to thinking when problem solving.
		• recognize that….
		   o mistakes can help one learn.
		   o skillful students ask for help and feedback.
		   o it is okay to not understand everything the first time around.
		   o everyone is capable of high achievement.

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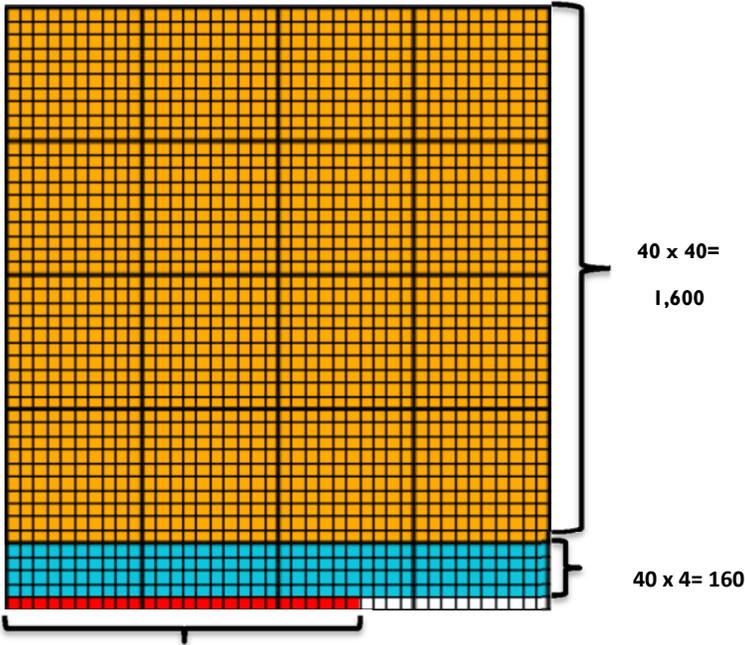
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Learning Experiences by Measurement Topic (MT)		
MT	🚌 <u>In school, your child will . . .</u>	🏫 <u>At home, your child can . . .</u>

Number and Operations in Base Ten	• use area models and equations to solve a multi-digit division problem (4-digit number by 2-digit number).
	
	<u>Example:</u> Use a ten-thousand grid to solve $1,786 \div 40 = 44\frac{26}{40}$
	
	40 x 40= 1,600
	40 x 4= 160
	Remainder 26
	
	Note: This is a portion of a ten-thousand grid.
		• practice solving multiplication and division problems using mental math to develop skills to solve more difficult problems.
		<u>Example:</u> 4 x 8 = 32
		      40 x 80 = 3,200
		        3,200 ÷ 40 = 80
		
		• estimate the quotient using knowledge of place value.
		• estimate and solve 4-digit by 2-digit division problems using an area model to show the relationship between multiplication and division.
		
		<u>Example:</u> There are 3,529 seats in a stadium. There are 40 sections. How seats are in each section?
		
		Area Model Drawing for Division
		$3,529 \div 40 = 88\ R\ 9$
		$3,529 \div 40 = 88\frac{9}{40}$	