

Fourth Grade Compacted Mathematics Newsletter

Marking Period 4, Part 1

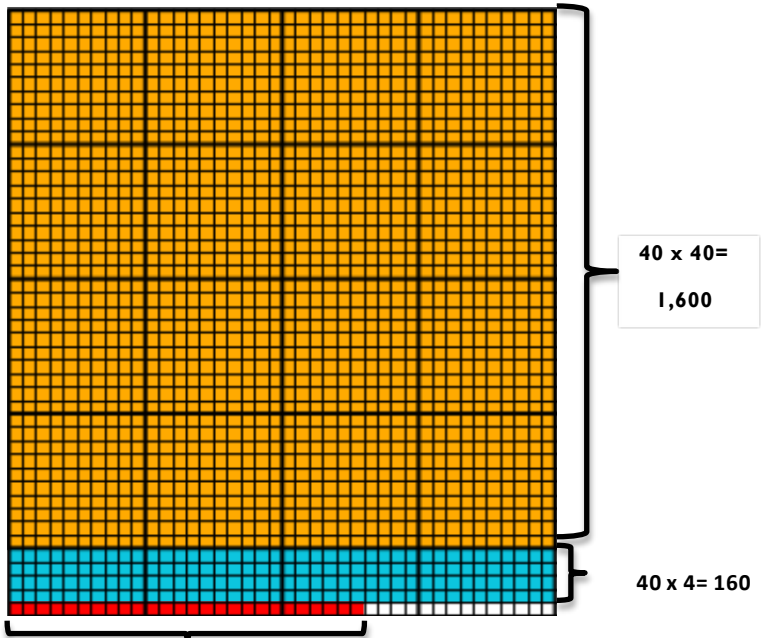
MT	Learning Goals by Measurement Topic (MT) <u>Students will be able to . . .</u>
Number and Operations in Base Ten	- use equations (number sentences with an equal sign), rectangular arrays, or area models to divide a 4-digit number by a 2-digit number. - use estimation strategies based on place value, properties of operations, and the relationship between multiplication and division to solve division problems. - reason about the relationships among dividends, divisors, and quotients. <i>Examples:</i> $25 \div 5 = 5$ dividenddivisorquotient $6 \overline{) 42} = 7$ divisordividendquotient - 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)		
	<u>It is . . .</u>	<u>In mathematics, students will . . .</u>
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.... ○ mistakes can help one learn. ○ skillful students ask for help and feedback. ○ it is okay to not understand everything the first time around. ○ everyone is capable of high achievement.

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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 $1,786 \div 40 = 44 \frac{26}{40}$  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> $4 \times 8 = 32$ $40 \times 80 = 3,200$ $3,200 \div 40 = 80$ - 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 $3,529 \div 40 = 88 \text{ R } 9$ $3,529 \div 40 = 88 \frac{9}{40}$ 