

Fifth Grade Mathematics Newsletter



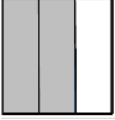
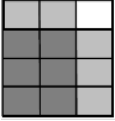
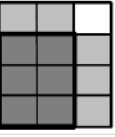
Marking Period 3, Part 1

MT	Learning Goals by Measurement Topic (MT) <u>Students will be able to . . .</u>
Number and Operations - Fractions	<ul style="list-style-type: none"> represent and solve real-world multiplication problems with fractions in different ways. interpret multiplication of a fraction by a fraction as resizing. apply informal knowledge of the distributive property to decompose mixed number factors and multiply. solve problems involving area of rectangles with fractional side lengths. apply and explain efficient strategies to multiply fractions.

Thinking and Academic Success Skills (TASS)		
	<u>It is . . .</u>	<u>In mathematics, students will . . .</u>
Elaboration	adding details that expand, enrich, or embellish.	<ul style="list-style-type: none"> add detail to explain the steps used to multiply fractions. expand on interpretation of an area model. explain with details how area models help represent and solve problems involving multiplying a fraction by a fraction. extend knowledge of the relationship between the size of a product and the size of its factors when multiplying fractions.
Intellectual Risk Taking	accepting uncertainty or challenging the norm to reach a goal.	<ul style="list-style-type: none"> adapt and make adjustments to meet challenges when seeking solutions to multiplication problems involving fractions. demonstrate willingness to accept uncertainty by sharing ideas, asking questions, or attempting new strategies to solving word problems. challenge self and others by creating real world examples when multiplying fractions to see math as sensible and useful. consider different ways to represent a given situation when a problem is hard to understand.

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Marking Period 3, Part 1

Learning Experiences by Measurement Topic (MT)		
MT	 <u>In school, your child will . . .</u>	 <u>At home, your child can . . .</u>
Number and Operations - Fractions	<ul style="list-style-type: none"> partition a whole into fractional parts to represent multiplying fractions using an area model. <p><u>Example:</u> $\frac{2}{3} \times \frac{3}{4}$</p> <p>The whole is partitioned into three equal parts. Two of the three parts are shaded to represent $\frac{2}{3}$.</p>  <p>Then the whole is partitioned into four equal parts. Three of the four parts are shaded to represent $\frac{3}{4}$.</p>  <p>The product is the overlapped region.</p> $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$ <p>The answer is $\frac{6}{12}$ →</p> 	<ul style="list-style-type: none"> use real-world examples to multiply fractions using an area model. <p><u>Example:</u> A cookie recipe calls for $\frac{2}{3}$ cup of flour. You are making $\frac{3}{4}$ of a batch. How much flour do you need? (Try similar problems using other measurements or recipes.) note: <i>this is an example of resizing</i></p> <p><u>Example:</u> You did your homework for $1\frac{1}{4}$ of an hour. You spent $\frac{1}{2}$ of the time reading. What fraction of an hour did you read?</p> <ul style="list-style-type: none"> show intellectual risk-taking by creating real-world problems <p><u>Website to support learning about multiplying fractions:</u></p> <p>http://www.learner.org/courses/learningmath/number/session9/part_a/try.html</p>
Glossary	<p>mixed number: a number written as a whole number with a fraction <u>Example:</u> $3\frac{2}{5}$</p> <p>partition: divide a whole into equal parts</p>	