

Fifth Grade Mathematics Newsletter

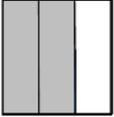
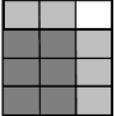
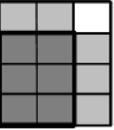
Marking Period 3, Part 1

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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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/tr y.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>
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