



Dear Fourth Grade Families,

In Unit 6, students will work on the following fourth grade Common Core standards in the Number and Operations—Fractions (NF) domain:

4.NF.4a-c	<p>Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.</p> <p>a. Understand a fraction <math>\frac{a}{b}</math> as a multiple of <math>\frac{1}{b}</math>. <i>For example, use a visual fraction model to represent <math>\frac{5}{4}</math> as the product <math>5 \times (\frac{1}{4})</math>, recording the conclusion by the equation <math>\frac{5}{4} = 5 \times (\frac{1}{4})</math>.</i></p> <p>b. Understand a multiple of <math>\frac{a}{b}</math> as a multiple of <math>\frac{1}{b}</math>, and use this understanding to multiply a fraction by a whole number. <i>For example, use a visual fraction model to express <math>3 \times (\frac{2}{5})</math> as <math>6 \times (\frac{1}{5})</math>, recognizing this product as <math>\frac{6}{5}</math>. (In general, <math>n \times (\frac{a}{b}) = \frac{(n \times a)}{b}</math>.)</i></p> <p>c. Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. <i>For example, if each person at a party will eat <math>\frac{3}{8}</math> of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?</i></p>
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### Unit 6 Concepts:

- Decompose fractions using multiplication
- Multiply fraction by whole number
- Word problems with Fractions

### Unit 6 Vocabulary:

- Numerator
- Denominator
- Unit Fraction
- Decompose
- Cross Multiply
- Factor
- Whole Number
- Mixed Number

### Need a review?

Have your student login to Swun Math to access lesson support videos.

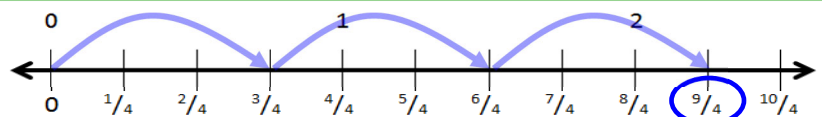
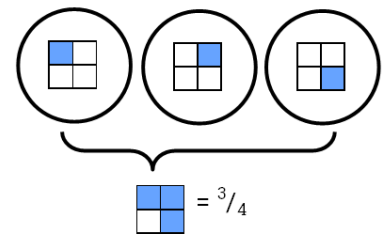
Ask questions like these to help your child become a productive mathematical thinker:

- What connection is there between repeated addition and multiplication of a fraction by a whole number?
- How do models help you understand what's happening when you multiply fractions by a whole number?
- Can you represent this fraction on a number line?

### Multiply Fractions

$$3 \times \frac{1}{4}$$

We say: "three groups of  $\frac{1}{4}$ "



$$3 \times \frac{3}{4} = \frac{9}{4}$$

We encourage you to talk with your child daily about what was learned in math class.

Thank you for your support!