

REVIEW: Multiplying Fractions

Name _____

Key Concept and Vocabulary

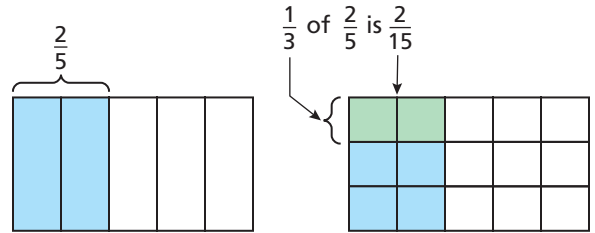
Multiply numerators.

$$\frac{1}{3} \cdot \frac{2}{5} = \frac{1 \cdot 2}{3 \cdot 5} = \frac{2}{15}$$

Multiply denominators.



Visual Model



Skill Examples

- $\frac{2}{3} \cdot \frac{1}{4} = \frac{2 \cdot 1}{3 \cdot 4} = \frac{2}{12} = \frac{1}{6}$
- $\frac{3}{8} \times \frac{2}{9} = \frac{3 \cdot 2}{8 \cdot 9} = \frac{6}{72} = \frac{1}{12}$
- $\left(\frac{2}{5}\right)\left(\frac{1}{4}\right) = \frac{2 \cdot 1}{5 \cdot 4} = \frac{2}{20} = \frac{1}{10}$
- $\frac{1}{7} \cdot \frac{3}{5} = \frac{1 \cdot 3}{7 \cdot 5} = \frac{3}{35}$

Application Example

- A recipe calls for three-fourths cup of flour. You want to make one-half of the recipe. How much flour should you use?

$$\frac{1}{2} \cdot \frac{3}{4} = \frac{1 \cdot 3}{2 \cdot 4} = \frac{3}{8}$$

••• You should use $\frac{3}{8}$ cup flour.



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Check your answers at BigIdeasMath.com.

Find the product. Write your answer in simplified form.

- $\frac{1}{3} \cdot \frac{2}{7} =$ _____
- $\frac{1}{2} \times \frac{1}{4} =$ _____
- $\frac{1}{10} \cdot \frac{3}{10} =$ _____
- $\frac{3}{2} \times \frac{2}{5} =$ _____
- $\frac{3}{8} \times \frac{1}{2} =$ _____
- $\left(\frac{1}{5}\right)\left(\frac{2}{5}\right) =$ _____
- $\left(\frac{2}{3}\right)^2 =$ _____
- $\frac{3}{2} \cdot \frac{2}{3} =$ _____
- $\left(\frac{3}{1}\right)\left(\frac{1}{3}\right) =$ _____
- $2 \cdot \frac{1}{4} =$ _____
- $3 \times \frac{3}{4} =$ _____
- $\frac{1}{3} \cdot \frac{3}{4} \cdot \frac{4}{5} =$ _____

Find the area of the rectangle or parallelogram.

- Area = _____
- Area = _____
- Area = _____
- Area = _____

22. **OPEN-ENDED** Find three different pairs of fractions that have the same product.

\cdot =
 \cdot =
 \cdot =