

REVIEW: Multiplying Fractions

Name _____

Key Concept and Vocabulary

Multiply numerators.

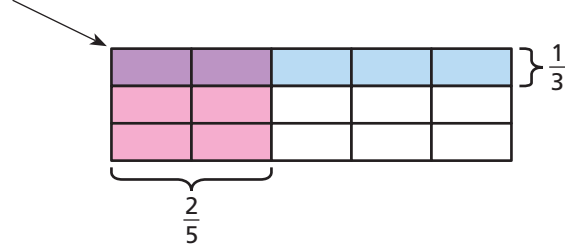
$$\frac{1}{3} \times \frac{2}{5} = \frac{1 \times 2}{3 \times 5} = \frac{2}{15}$$

Multiply denominators.



Visual Model

2 out of 15 parts are shaded twice.



Skill Examples

1. $\frac{2}{3} \times \frac{1}{4} = \frac{2 \times 1}{3 \times 4} = \frac{2}{12} = \frac{1}{6}$

2. $\frac{3}{8} \times \frac{4}{5} = \frac{3 \times 4}{8 \times 5} = \frac{12}{40} = \frac{3}{10}$

3. $\frac{2}{5} \times \frac{1}{4} = \frac{2 \times 1}{5 \times 4} = \frac{2}{20} = \frac{1}{10}$

4. $\frac{5}{6} \times \frac{3}{4} = \frac{5 \times 3}{6 \times 4} = \frac{15}{24} = \frac{5}{8}$

Application Example

5. A recipe calls for $\frac{3}{4}$ cup of flour. You want to make $\frac{1}{2}$ of the recipe. How much flour do you need?

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

• You need $\frac{3}{8}$ cup flour.



PRACTICE MAKES PURR-FECT®

Check your answers at BigIdeasMath.com.

Find the product.

6. $\frac{1}{3} \times \frac{3}{8} =$ _____

7. $\frac{1}{2} \times \frac{1}{4} =$ _____

8. $\frac{1}{10} \times \frac{3}{10} =$ _____

9. $\frac{3}{2} \times \frac{2}{5} =$ _____

10. $\frac{3}{8} \times \frac{1}{2} =$ _____

11. $\frac{1}{5} \times \frac{2}{5} =$ _____

12. $\frac{2}{3} \times \frac{2}{3} =$ _____

13. $\frac{3}{2} \times \frac{2}{3} =$ _____

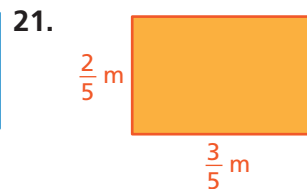
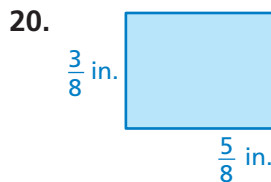
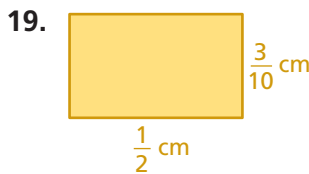
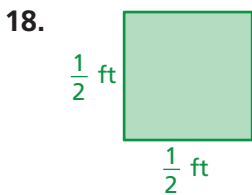
14. $\frac{3}{1} \times \frac{1}{3} =$ _____

15. $\frac{5}{12} \times \frac{5}{2} =$ _____

16. $\frac{15}{8} \times \frac{6}{5} =$ _____

17. $\frac{1}{3} \times \frac{3}{4} \times \frac{4}{5} =$ _____

Find the area of the rectangle.



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

· = · = · =