

Name _____

Fraction Multiplication



COMMON CORE STANDARD—5.NF.B.4a

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

Find the product. Write the product in simplest form.

1. $\frac{4}{5} \times \frac{7}{8} = \frac{4 \times 7}{5 \times 8}$
 $= \frac{28}{40}$
 $= \frac{7}{10}$

2. $3 \times \frac{1}{6}$

3. $\frac{5}{9} \times \frac{3}{4}$

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

5. $\frac{1}{8} \times 20$

6. Karen raked $\frac{3}{5}$ of the yard. Minni raked $\frac{1}{3}$ of the amount Karen raked. How much of the yard did Minni rake?

7. In the pet show, $\frac{3}{8}$ of the pets are dogs. Of the dogs, $\frac{2}{3}$ have long hair. What fraction of the pets are dogs with long hair?

Algebra Evaluate for the given value of the variable.

8. $\frac{7}{8} \times c$ for $c = 8$

9. $t \times \frac{3}{4}$ for $t = \frac{8}{9}$

10. $\frac{1}{2} \times s$ for $s = \frac{3}{10}$

11. $y \times 6$ for $y = \frac{2}{3}$

Problem Solving



12. Jason ran $\frac{5}{7}$ of the distance around the school track. Sara ran $\frac{4}{5}$ of Jason's distance. What fraction of the total distance around the track did Sara run?

13. A group of students attend a math club. Half of the students are boys and $\frac{4}{9}$ of the boys have brown eyes. What fraction of the group are boys with brown eyes?

14. **WRITE** *Math* Explain how multiplying fractions is similar to multiplying whole numbers and how it is different.