

Name _____

Multiply Fractions**COMMON CORE STANDARD—6.NS.4***Compute fluently with multi-digit numbers and find common factors and multiples.*

Find the product. Write it in simplest form.

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

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. $\frac{4}{5} \times \frac{3}{8}$

7. $\frac{6}{7} \times \frac{7}{9}$

8. $1\frac{1}{8} \times \frac{1}{9}$

9. $\frac{1}{14} \times 28$

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

11. 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?
-
-
- _____

- 12.
- $\frac{3}{8}$
- of the pets in the pet show are dogs.
- $\frac{2}{3}$
- of the dogs have long hair. What fraction of the pets are dogs with long hair?
-
-
- _____

Evaluate using the order of operations.

13. $(\frac{1}{2} + \frac{3}{8}) \times 8$

14. $\frac{3}{4} \times (1 - \frac{1}{9})$

15. $4 \times \frac{1}{8} \times \frac{3}{10}$

16. $6 \times (\frac{4}{5} + \frac{2}{10}) \times \frac{2}{3}$

Problem Solving

17. 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?
-
-
- _____

18. 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?
-
-
- _____

Lesson Check (6.NS.4)

1. Veronica's mom left $\frac{3}{4}$ of a cake on the table. Her brothers ate $\frac{1}{2}$ of it. What fraction of the cake did they eat?
2. One lap around the school track is $\frac{5}{8}$ mile. Carin ran $3\frac{1}{2}$ laps. How far did she run?

Spiral Review (6.NS.3, 6.NS.4, 6.NS.6c)

3. Tom bought $2\frac{5}{16}$ pounds of peanuts and 2.45 pounds of cashews. Which did he buy more of? Explain.
4. Eve has 24 stamps each valued at \$24.75. What is the total value of her stamps?

5. Naomi went on a 6.5-mile hike. In the morning, she hiked 1.75 miles, rested, and then hiked 2.4 more miles. She completed the hike in the afternoon. How much farther did she hike in the morning than in the afternoon?
6. A bookstore owner has 48 science fiction books and 30 mysteries he wants to sell quickly. He will make discount packages with one type of book in each. He wants the most books possible in each package, but all packages must contain the same number of books. How many packages can he make? How many packages of each type of book does he have?
