Name _____

Fraction Multiplication

COMMON CORE STANDARD CC.5NF.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. $\frac{4}{5} \times \frac{3}{8}$ _____

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

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

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

10. $\frac{3}{4} \times \frac{1}{3}$ _____

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. 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.

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

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

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

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

Problem Solving REAL WORLD

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?

_____

TEST PREP

Lesson Check (CC.5.NF.4a)

1. Fritz attended band practice for $\frac{5}{6}$ hour. Then he went home and practiced for $\frac{2}{5}$ as long as band practice. How many minutes did he practice at home?

   (A) 10 minutes

   (B) 15 minutes

   (C) 20 minutes

   (D) 25 minutes

2. Darlene read $\frac{5}{8}$ of a 56-page book. How many pages did Darlene read?

   (A) 30

   (B) 35

   (C) 40

   (D) 45

Spiral Review (CC.5.NBT.2, CC.5.NF.1, CC.5.NF.3, CC.5.NF.4a)

3. What is the quotient of $\frac{18}{1{,}000}$? (Lesson 5.1)

   (A) 18,000

   (B) 1,800

   (C) 0.18

   (D) 0.018

4. A machine produces 1,000 bowling pins per hour, each valued at \$8.37. What is the total value of the pins produced in 1 hour? (Lesson 4.1)

   (A) \$8.37

   (B) \$83.70

   (C) \$837.00

   (D) \$8,370.00

5. Keith had $8\frac{1}{2}$ cups of flour. He used $5\frac{2}{3}$ cups to make bread. How many cups of flour does Keith have left? (Lesson 6.7)

   (A) $1\frac{5}{6}$ cups

   (B) $2\frac{5}{6}$ cups

   (C) $3\frac{1}{6}$ cups

   (D) $3\frac{1}{3}$ cups

6. The Blue Lake Trail is $11\frac{3}{8}$ miles long. Gemma has hiked $2\frac{1}{2}$ miles each hour for 3 hours. How far is she from the end of the trail? (Lesson 7.3)

   (A) $3\frac{7}{8}$ miles

   (B) $4\frac{1}{2}$ miles

   (C) $4\frac{7}{8}$ miles

   (D) $8\frac{7}{8}$ miles