Fraction and Whole Number Multiplication

Find the product. Write the product in simplest form.

1. $4 \times \frac{5}{8} =$ _____ $2\frac{1}{2}$ _____

$4 \times \frac{5}{8} = \frac{20}{8}$

$\frac{20}{8} = 2\frac{4}{8}$, or $2\frac{1}{2}$

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

3. $\frac{4}{5} \times 10 =$ _____

4. $\frac{3}{4} \times 9 =$ _____

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

6. $7 \times \frac{1}{2} =$ _____

7. $\frac{2}{5} \times 6 =$ _____

8. $9 \times \frac{2}{3} =$ _____

9. $\frac{3}{10} \times 9 =$ _____

10. $4 \times \frac{3}{8} =$ _____

11. $\frac{3}{5} \times 7 =$ _____

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

Problem Solving REAL WORLD

13. Leah makes aprons to sell at a craft fair. She needs $\frac{3}{4}$ yard of material to make each apron. How much material does Leah need to make 6 aprons?

14. The gas tank of Mr. Tanaka's car holds 15 gallons of gas. He used $\frac{2}{3}$ of a tank of gas last week. How many gallons of gas did Mr. Tanaka use?

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

1. At the movies, Liz eats $\frac{1}{4}$ of a box of popcorn. Her friend Kyra eats two times as much popcorn as Liz eats. How much of a box of popcorn does Kyra eat?

   (A) $\frac{1}{16}$

   (B) $\frac{1}{8}$

   (C) $\frac{1}{4}$

   (D) $\frac{1}{2}$

2. It takes Ed 45 minutes to complete his science homework. It takes him $\frac{2}{3}$ as long to complete his math homework. How long does it take Ed to complete his math homework?

   (A)   15 minutes

   (B)   30 minutes

   (C)   90 minutes

   (D) 120 minutes

Spiral Review (CC.5.NBT.2, CC.5.NBT.7, CC.5.NF.1, CC.5.NF.2)

3. Which is the best estimate for the quotient? **(Lesson 5.3)**

   $$591.3 \div 29$$

   (A) about 2

   (B) about 3

   (C) about 20

   (D) about 30

4. Sandy bought $\frac{3}{4}$ yard of red ribbon and $\frac{2}{3}$ yard of white ribbon to make some hair bows. Altogether, how many yards of ribbon did she buy? **(Lesson 6.5)**

   (A) $\frac{5}{12}$ yard

   (B) $\frac{5}{7}$ yard

   (C) $1\frac{5}{12}$ yards

   (D) $1\frac{7}{12}$ yards

5. Eric jogged $3\frac{1}{4}$ miles on Monday, $5\frac{5}{8}$ miles on Tuesday, and 8 miles on Wednesday. Suppose he continues the pattern for the remainder of the week. How far will Eric jog on Friday? **(Lesson 6.8)**

   (A) $10\frac{3}{8}$ miles

   (B) $10\frac{3}{4}$ miles

   (C) $12\frac{3}{8}$ miles

   (D) $12\frac{3}{4}$ miles

6. Sharon bought 25 pounds of ground beef and made 100 hamburger patties of equal weight. What is the weight of each hamburger patty? **(Lesson 5.1)**

   (A)   0.025 pound

   (B)   0.25 pound

   (C)   2.5 pounds

   (D) 2,500 pounds