

Fraction Times a Whole Number: Word Problems

Name: _____

Grade 4 · Stories that multiply a fraction by a whole number

Write a multiplication equation for each story. Solve it, and write the answer as a mixed number.

1. A recipe uses $\frac{3}{4}$ cup of flour for one batch of muffins. How many cups of flour do 5 batches need?

Answer: $\frac{\text{ } \overline{\text{ }}}{\text{ }}$ cups

2. One lap around the park path is $\frac{2}{5}$ mile. Dana runs 6 laps. How many miles does she run?

Answer: $\frac{\text{ } \overline{\text{ }}}{\text{ }}$ miles

3. One bow takes $\frac{5}{8}$ yard of ribbon. How many yards of ribbon do 3 bows take?

Answer: $\frac{\text{ } \overline{\text{ }}}{\text{ }}$ yards

4. A puppy eats $\frac{2}{3}$ cup of food each day. How many cups of food does it eat in 7 days?

Answer: $\frac{\text{ } \overline{\text{ }}}{\text{ }}$ cups

5. Each guest at a dinner will eat $\frac{3}{8}$ pound of roast beef. There are 7 guests. How many pounds of roast beef are needed?

Answer: $\frac{\text{ } \overline{\text{ }}}{\text{ }}$ pounds

6. A glass holds $\frac{7}{10}$ liter of water. How many liters of water do 3 glasses hold?

Answer: $\frac{\text{ } \overline{\text{ }}}{\text{ }}$ liters

Fraction Times a Whole Number: Word Problems (Answer Key)

Grade 4 · Stories that multiply a fraction by a whole number

Write a multiplication equation for each story. Solve it, and write the answer as a mixed number.

1. A recipe uses $\frac{3}{4}$ cup of flour for one batch of muffins. How many cups of flour do 5 batches need?

$$5 \times \frac{3}{4} = \frac{15}{4} = 3 \frac{3}{4}$$

Answer: $3 \frac{3}{4}$ cups

2. One lap around the park path is $\frac{2}{5}$ mile. Dana runs 6 laps. How many miles does she run?

$$6 \times \frac{2}{5} = \frac{12}{5} = 2 \frac{2}{5}$$

Answer: $2 \frac{2}{5}$ miles

3. One bow takes $\frac{5}{8}$ yard of ribbon. How many yards of ribbon do 3 bows take?

$$3 \times \frac{5}{8} = \frac{15}{8} = 1 \frac{7}{8}$$

Answer: $1 \frac{7}{8}$ yards

4. A puppy eats $\frac{2}{3}$ cup of food each day. How many cups of food does it eat in 7 days?

$$7 \times \frac{2}{3} = \frac{14}{3} = 4 \frac{2}{3}$$

Answer: $4 \frac{2}{3}$ cups

5. Each guest at a dinner will eat $\frac{3}{8}$ pound of roast beef. There are 7 guests. How many pounds of roast beef are needed?

$$7 \times \frac{3}{8} = \frac{21}{8} = 2 \frac{5}{8}$$

Answer: $2 \frac{5}{8}$ pounds

6. A glass holds $\frac{7}{10}$ liter of water. How many liters of water do 3 glasses hold?

$$3 \times \frac{7}{10} = \frac{21}{10} = 2 \frac{1}{10}$$

Answer: $2 \frac{1}{10}$ liters