

Multiplying Fractions

Unit Test, Form A (page 1 of 2)

Score _____ / 8

1. Write the missing numbers.

$$\frac{7}{6} = \square \times \frac{1}{6}$$

$$\frac{11}{12} = \square \times \frac{1}{12}$$

$$4 \times \frac{1}{10} = \frac{\square}{10}$$

2. Write the multiplication the jumps show.



$$\square \times \frac{1}{4} = \frac{\square}{4}$$

3. Each strip is 1 whole. Fill in the blanks.



$$2 \times \frac{4}{5} = \square \times \frac{1}{5} = \frac{\square}{5}$$

4. Multiply. Write each product as a fraction.

$$3 \times \frac{3}{10} = \frac{\square}{10}$$

$$5 \times \frac{3}{8} = \frac{\square}{8}$$

$$2 \times \frac{3}{5} = \frac{\square}{5}$$

Multiplying Fractions

Unit Test, Form A (page 2 of 2)

5. Multiply in your head or on paper. Write the two whole numbers the product is between.

$$7 \times \frac{4}{5} \text{ is between } \boxed{} \text{ and } \boxed{}$$

$$\frac{3}{4} \times 9 \text{ is between } \boxed{} \text{ and } \boxed{}$$

6. Write an equation for the story.
Then write the answer as a mixed number.

A puppy eats $\frac{7}{8}$ cup of food each day.
How much food does it eat in 7 days?

Equation: _____

Answer: cups

7. Write an equation for the story.
Then write the answer as a mixed number.

Sam walks $\frac{4}{5}$ mile to school. He walks there 6 times. How far does he walk?

Equation: _____

Answer: miles

8. Read the story. Draw lines to share the things. Write the fraction.

6 friends share 5 granola bars equally. What fraction of a granola bar does each one get?



Multiplying Fractions

Unit Test, Form B (page 1 of 2)

Score _____ / 8

1. Write the missing numbers.

$$\frac{8}{5} = \square \times \frac{1}{5}$$

$$\frac{5}{8} = \square \times \frac{1}{8}$$

$$6 \times \frac{1}{12} = \frac{\square}{12}$$

2. Write the multiplication the jumps show.



$$\square \times \frac{1}{5} = \frac{\square}{5}$$

3. Each strip is 1 whole. Fill in the blanks.



$$2 \times \frac{2}{3} = \square \times \frac{1}{3} = \frac{\square}{3}$$

4. Multiply. Write each product as a fraction.

$$2 \times \frac{2}{5} = \frac{\square}{5}$$

$$3 \times \frac{7}{8} = \frac{\square}{8}$$

$$7 \times \frac{7}{12} = \frac{\square}{12}$$

Multiplying Fractions

Unit Test, Form B (page 2 of 2)

5. Multiply in your head or on paper. Write the two whole numbers the product is between.

$$6 \times \frac{3}{5} \text{ is between } \boxed{} \text{ and } \boxed{}$$

$$\frac{5}{8} \times 7 \text{ is between } \boxed{} \text{ and } \boxed{}$$

6. Write an equation for the story.
Then write the answer as a mixed number.

Each cup holds $\frac{3}{10}$ liter of water. How much water do 11 cups hold?

Equation: _____

Answer: $\boxed{}$ liters

7. Write an equation for the story.
Then write the answer as a mixed number.

Each bow uses $\frac{5}{12}$ yard of ribbon. How much ribbon do 7 bows use?

Equation: _____

Answer: $\boxed{}$ yards

8. Read the story. Draw lines to share the things. Write the fraction.
8 friends share 3 pizzas equally. What fraction of a pizza does each one get?



Multiplying Fractions

Unit Test, Form A (page 1 of 2)

Score _____ / 8

1. Write the missing numbers.

$$\frac{7}{6} = \boxed{7} \times \frac{1}{6} \quad \frac{11}{12} = \boxed{11} \times \frac{1}{12} \quad 4 \times \frac{1}{10} = \frac{\boxed{4}}{10}$$

Lesson 9.1 · Copies of a unit fraction

2. Write the multiplication the jumps show.



$$\boxed{11} \times \frac{1}{4} = \frac{\boxed{11}}{4}$$

Lesson 9.2 · Times a unit fraction on a number line

3. Each strip is 1 whole. Fill in the blanks.



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

Lesson 9.3 · Whole number times a fraction

4. Multiply. Write each product as a fraction.

$$3 \times \frac{3}{10} = \frac{\boxed{9}}{10} \quad 5 \times \frac{3}{8} = \frac{\boxed{15}}{8} \quad 2 \times \frac{3}{5} = \frac{\boxed{6}}{5}$$

Lesson 9.3 · Whole number times a fraction

Multiplying Fractions

Unit Test, Form A (page 2 of 2)

5. Multiply in your head or on paper. Write the two whole numbers the product is between.

$$7 \times \frac{4}{5} \text{ is between } \boxed{5} \text{ and } \boxed{6}$$

$$\frac{3}{4} \times 9 \text{ is between } \boxed{6} \text{ and } \boxed{7}$$

Lesson 9.4 · Between which two whole numbers?

6. Write an equation for the story.
Then write the answer as a mixed number.

A puppy eats $\frac{7}{8}$ cup of food each day.
How much food does it eat in 7 days?

Equation: $7 \times \frac{7}{8} = \frac{49}{8}$ One way

Answer: $\boxed{6\frac{1}{8}}$ cups or $\frac{49}{8}$

Lesson 9.5 · Story problems

7. Write an equation for the story.
Then write the answer as a mixed number.

Sam walks $\frac{4}{5}$ mile to school. He walks there 6 times. How far does he walk?

Equation: $6 \times \frac{4}{5} = \frac{24}{5}$ One way

Answer: $\boxed{4\frac{4}{5}}$ miles or $\frac{24}{5}$

Lesson 9.5 · Story problems

8. Read the story. Draw lines to share the things. Write the fraction.

6 friends share 5 granola bars equally. What fraction of a granola bar does each one get?



One way

$$\frac{\boxed{5}}{\boxed{6}}$$

Lesson 9.6 · A fraction as sharing

Multiplying Fractions

Unit Test, Form B (page 1 of 2)

Score _____ / 8

1. Write the missing numbers.

$$\frac{8}{5} = \boxed{8} \times \frac{1}{5}$$

$$\frac{5}{8} = \boxed{5} \times \frac{1}{8}$$

$$6 \times \frac{1}{12} = \frac{\boxed{6}}{12}$$

Lesson 9.1 · Copies of a unit fraction

2. Write the multiplication the jumps show.



$$\boxed{6} \times \frac{1}{5} = \frac{\boxed{6}}{5}$$

Lesson 9.2 · Times a unit fraction on a number line

3. Each strip is 1 whole. Fill in the blanks.



$$2 \times \frac{2}{3} = \boxed{4} \times \frac{1}{3} = \frac{\boxed{4}}{3}$$

Lesson 9.3 · Whole number times a fraction

4. Multiply. Write each product as a fraction.

$$2 \times \frac{2}{5} = \frac{\boxed{4}}{5}$$

$$3 \times \frac{7}{8} = \frac{\boxed{21}}{8}$$

$$7 \times \frac{7}{12} = \frac{\boxed{49}}{12}$$

Lesson 9.3 · Whole number times a fraction

Multiplying Fractions

Unit Test, Form B (page 2 of 2)

5. Multiply in your head or on paper. Write the two whole numbers the product is between.

$$6 \times \frac{3}{5} \text{ is between } \boxed{3} \text{ and } \boxed{4}$$

$$\frac{5}{8} \times 7 \text{ is between } \boxed{4} \text{ and } \boxed{5}$$

Lesson 9.4 · Between which two whole numbers?

6. Write an equation for the story.
Then write the answer as a mixed number.

Each cup holds $\frac{3}{10}$ liter of water. How much water do 11 cups hold?

Equation: $11 \times \frac{3}{10} = \frac{33}{10}$ One way

Answer: $\boxed{3\frac{3}{10}}$ liters or $\frac{33}{10}$

Lesson 9.5 · Story problems

7. Write an equation for the story.
Then write the answer as a mixed number.

Each bow uses $\frac{5}{12}$ yard of ribbon. How much ribbon do 7 bows use?

Equation: $7 \times \frac{5}{12} = \frac{35}{12}$ One way

Answer: $\boxed{2\frac{11}{12}}$ yards or $\frac{35}{12}$

Lesson 9.5 · Story problems

8. Read the story. Draw lines to share the things. Write the fraction.
8 friends share 3 pizzas equally. What fraction of a pizza does each one get?



One way

$$\frac{\boxed{3}}{\boxed{8}}$$

Lesson 9.6 · A fraction as sharing