

Multiplying Fractions

Unit Test, Form A (page 1 of 2)

Score _____ / 13

1. Write a division. Then solve.

4 friends share 9 pizzas equally. How many pizzas does each get?

$$\square \div \square = \square \text{ pizzas}$$

2. Write each as a fraction.

$$3 \div 10 = \square$$

$$17 \div 6 = \square$$

3. Use the tape to multiply.



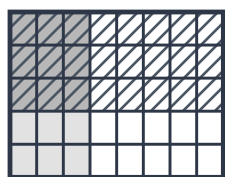
$$\frac{5}{6} \times 24 = \square$$

4. Multiply. Answer in simplest form.

$$\frac{2}{3} \times 15 = \square$$

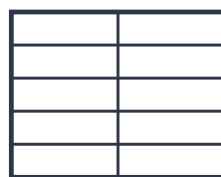
$$9 \times \frac{3}{4} = \square$$

5. Write the equation the model shows.



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

6. Shade the model for the product. Write it in simplest form.



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

7. Multiply. Write each product in simplest form.

$$\frac{2}{3} \times \frac{3}{10} = \frac{\square}{\square}$$

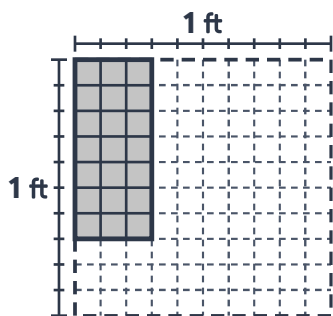
$$\frac{4}{5} \times \frac{7}{8} = \frac{\square}{\square}$$

$$\frac{5}{6} \times \frac{9}{10} = \frac{\square}{\square}$$

Multiplying Fractions

Unit Test, Form A (page 2 of 2)

8. Find the area of the gray part.



Area:

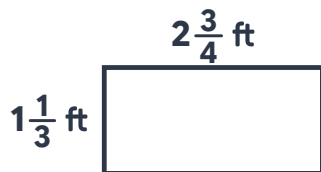
sq ft

9. Multiply. Answer in simplest form.

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

$$\frac{3}{5} \times 2\frac{1}{2} = \frac{\boxed{}}{\boxed{}}$$

10. Find the area in simplest form.



Area:

sq ft

11. Do not multiply. Write $>$, $<$ or $=$.

$$\frac{7}{8} \times 15 \bigcirc 15$$

$$1\frac{1}{3} \times \frac{2}{5} \bigcirc \frac{2}{5}$$

12. Solve. Answer in simplest form.

One lap around a park is $1\frac{1}{4}$ miles.
Ben runs $2\frac{1}{5}$ laps. How far does he run?

Answer:

miles

13. Solve. Answer in simplest form.

A garden is $\frac{2}{3}$ planted. Beans fill $\frac{3}{8}$ of the planted part. What part of the garden is beans?

Answer:

of the garden

Multiplying Fractions

Unit Test, Form B (page 1 of 2)

Score _____ / 13

1. Write a division. Then solve.

Sam pours **11** liters of water equally into **5** jugs. How much is in each jug?

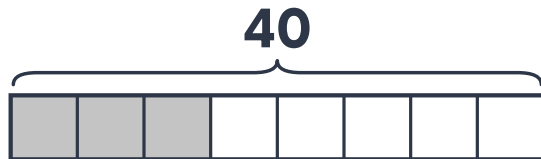
$$\square \div \square = \square \text{ liters}$$

2. Write each as a fraction.

$$7 \div 12 = \square$$

$$19 \div 8 = \square$$

3. Use the tape to multiply.



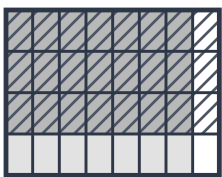
$$\frac{3}{8} \times 40 = \square$$

4. Multiply. Answer in simplest form.

$$\frac{4}{5} \times 25 = \square$$

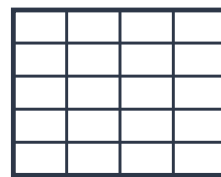
$$7 \times \frac{5}{12} = \square$$

5. Write the equation the model shows.



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

6. Shade the model for the product. Write it in simplest form.



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

7. Multiply. Write each product in simplest form.

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

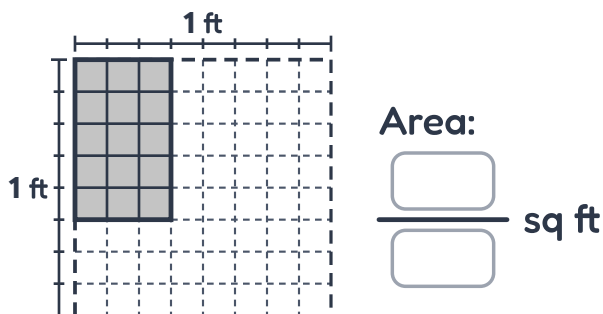
$$\frac{3}{4} \times \frac{7}{12} = \frac{\square}{\square}$$

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

Multiplying Fractions

Unit Test, Form B (page 2 of 2)

8. Find the area of the gray part.



9. Multiply. Answer in simplest form.

$$1\frac{2}{3} \times 2\frac{1}{5} = \frac{\quad}{\quad}$$

$$\frac{2}{3} \times 3\frac{3}{4} = \frac{\quad}{\quad}$$

10. Find the area in simplest form.



11. Do not multiply. Write >, < or =.

$$\frac{9}{10} \times 14 \bigcirc 14$$

$$1\frac{1}{4} \times \frac{3}{5} \bigcirc \frac{3}{5}$$

12. Solve. Answer in simplest form.

A photo is $2\frac{1}{3}$ inches wide. Ana prints a copy $1\frac{1}{2}$ times as wide. How wide is the copy?

Answer: $\frac{\quad}{\quad}$ inches

13. Solve. Answer in simplest form.

Of the students in a class, $\frac{5}{6}$ have a pet. Of those, $\frac{4}{5}$ have a dog. What part of the class has a dog?

Answer: $\frac{\quad}{\quad}$ of the class

Multiplying Fractions

Unit Test, Form A (page 1 of 2)

Score _____ / 13

1. Write a division. Then solve.

4 friends share 9 pizzas equally. How many pizzas does each get?

$$9 \div 4 = 2\frac{1}{4} \text{ pizzas or } \frac{9}{4}$$

Lesson 8.1 · A fraction is a division

2. Write each as a fraction.

$$3 \div 10 = \frac{3}{10}$$

$$17 \div 6 = \frac{17}{6} \text{ or } 2\frac{5}{6}$$

Lesson 8.1 · A fraction is a division

3. Use the tape to multiply.



$$\frac{5}{6} \times 24 = 20$$

Lesson 8.2 · A fraction of a whole number

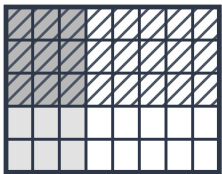
4. Multiply. Answer in simplest form.

$$\frac{2}{3} \times 15 = 10$$

$$9 \times \frac{3}{4} = 6\frac{3}{4} \text{ or } \frac{27}{4}$$

Lesson 8.2 · A fraction of a whole number

5. Write the equation the model shows.



$$\frac{3}{8} \times \frac{3}{5} = \frac{9}{40}$$

Either order

Lesson 8.3 · A fraction of a fraction

6. Shade the model for the product. Write it in simplest form.



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

One way to shade

Lesson 8.3 · A fraction of a fraction

7. Multiply. Write each product in simplest form.

$$\frac{2}{3} \times \frac{3}{10} = \frac{1}{5}$$

$$\frac{4}{5} \times \frac{7}{8} = \frac{7}{10}$$

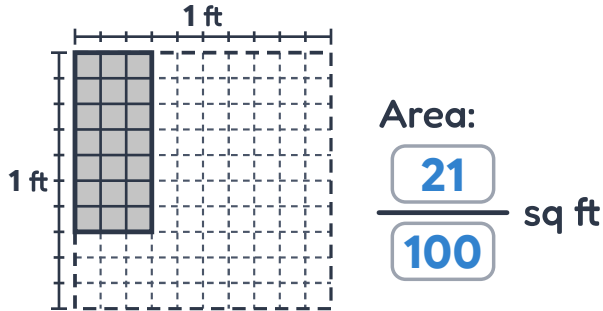
$$\frac{5}{6} \times \frac{9}{10} = \frac{3}{4}$$

Lesson 8.4 · Multiply fractions

Multiplying Fractions

Unit Test, Form A (page 2 of 2)

8. Find the area of the gray part.



Lesson 8.5 · Area with fraction sides

9. Multiply. Answer in simplest form.

$$2\frac{2}{3} \times 1\frac{1}{4} = 3\frac{1}{3} \text{ or } \frac{10}{3}$$

$$\frac{3}{5} \times 2\frac{1}{2} = 1\frac{1}{2} \text{ or } \frac{3}{2}$$

Lesson 8.6 · Multiply mixed numbers

10. Find the area in simplest form.



Lesson 8.6 · Multiply mixed numbers

11. Do not multiply. Write >, < or =.

$$\frac{7}{8} \times 15 < 15$$

$$1\frac{1}{3} \times \frac{2}{5} > \frac{2}{5}$$

Lesson 8.7 · Multiplying as scaling

12. Solve. Answer in simplest form.

One lap around a park is $1\frac{1}{4}$ miles.
Ben runs $2\frac{1}{5}$ laps. How far does he run?

Answer: $2\frac{3}{4}$ miles or $\frac{11}{4}$

Lesson 8.8 · Fraction multiplication stories

13. Solve. Answer in simplest form.

A garden is $\frac{2}{3}$ planted. Beans fill $\frac{3}{8}$ of the planted part. What part of the garden is beans?

Answer: $\frac{1}{4}$ of the garden

Lesson 8.8 · Fraction multiplication stories

Multiplying Fractions

Unit Test, Form B (page 1 of 2)

Score _____ / 13

1. Write a division. Then solve.

Sam pours 11 liters of water equally into 5 jugs. How much is in each jug?

$$11 \div 5 = 2\frac{1}{5} \text{ liters or } \frac{11}{5}$$

Lesson 8.1 · A fraction is a division

2. Write each as a fraction.

$$7 \div 12 = \frac{7}{12}$$

$$19 \div 8 = \frac{19}{8} \text{ or } 2\frac{3}{8}$$

Lesson 8.1 · A fraction is a division

3. Use the tape to multiply.



$$\frac{3}{8} \times 40 = 15$$

Lesson 8.2 · A fraction of a whole number

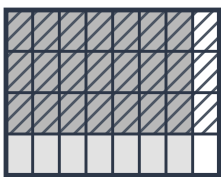
4. Multiply. Answer in simplest form.

$$\frac{4}{5} \times 25 = 20$$

$$7 \times \frac{5}{12} = 2\frac{11}{12} \text{ or } \frac{35}{12}$$

Lesson 8.2 · A fraction of a whole number

5. Write the equation the model shows.

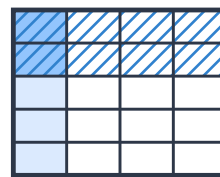


$$\frac{7}{8} \times \frac{3}{4} = \frac{21}{32}$$

Either order

Lesson 8.3 · A fraction of a fraction

6. Shade the model for the product. Write it in simplest form.



$$\frac{1}{4} \times \frac{2}{5} = \frac{1}{10}$$

One way to shade

Lesson 8.3 · A fraction of a fraction

7. Multiply. Write each product in simplest form.

$$\frac{2}{5} \times \frac{5}{12} = \frac{1}{6}$$

$$\frac{3}{4} \times \frac{7}{12} = \frac{7}{16}$$

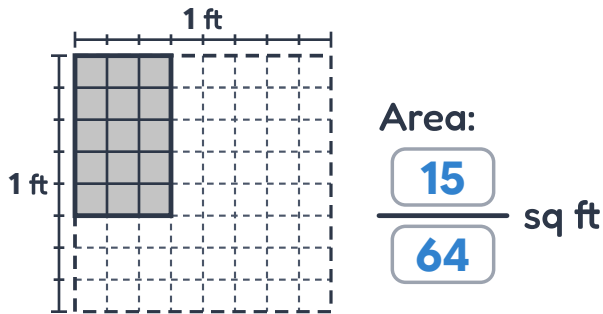
$$\frac{3}{5} \times \frac{5}{8} = \frac{3}{8}$$

Lesson 8.4 · Multiply fractions

Multiplying Fractions

Unit Test, Form B (page 2 of 2)

8. Find the area of the gray part.



Lesson 8.5 · Area with fraction sides

9. Multiply. Answer in simplest form.

$$1\frac{2}{3} \times 2\frac{1}{5} = 3\frac{2}{3} \text{ or } \frac{11}{3}$$

$$\frac{2}{3} \times 3\frac{3}{4} = 2\frac{1}{2} \text{ or } \frac{5}{2}$$

Lesson 8.6 · Multiply mixed numbers

10. Find the area in simplest form.

Area: $3\frac{9}{10}$ sq m
or $\frac{39}{10}$ sq m

Lesson 8.6 · Multiply mixed numbers

11. Do not multiply. Write $>$, $<$ or $=$.

$$\frac{9}{10} \times 14 < 14$$

$$1\frac{1}{4} \times \frac{3}{5} > \frac{3}{5}$$

Lesson 8.7 · Multiplying as scaling

12. Solve. Answer in simplest form.

A photo is $2\frac{1}{3}$ inches wide. Ana prints a copy $1\frac{1}{2}$ times as wide. How wide is the copy?

Answer: $3\frac{1}{2}$ inches or $\frac{7}{2}$

Lesson 8.8 · Fraction multiplication stories

13. Solve. Answer in simplest form.

Of the students in a class, $\frac{5}{6}$ have a pet. Of those, $\frac{4}{5}$ have a dog. What part of the class has a dog?

Answer: $\frac{2}{3}$ of the class

Lesson 8.8 · Fraction multiplication stories