

Dividing Fractions

Unit Test, Form A (page 1 of 2)

Score _____ / 12

1. Shade one piece of the shaded part. Then divide.

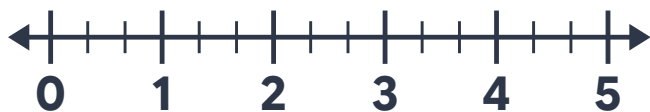


$$\frac{1}{6} \div 4 = \boxed{}$$

2. Divide.

$$\frac{1}{2} \div 9 = \boxed{} \quad \frac{1}{8} \div 5 = \boxed{}$$

3. How many thirds are in 5? Draw the jumps. Then divide.



$$5 \div \frac{1}{3} = \boxed{}$$

4. Divide.

$$8 \div \frac{1}{6} = \boxed{} \quad 9 \div \frac{1}{4} = \boxed{}$$

5. Divide. Then write a multiplication that checks it.

$$\frac{1}{12} \div 3 = \boxed{}$$

Check: $\boxed{} \times \boxed{} = \boxed{}$

6. Find each missing number.

$$\frac{1}{5} \div \boxed{} = \frac{1}{35} \quad \boxed{} \div \frac{1}{4} = 40$$

Dividing Fractions

Unit Test, Form A (page 2 of 2)

7. Write an equation for the story.

Then write the answer.

A baker has 3 pounds of dough. Each roll uses $\frac{1}{8}$ pound. How many rolls can she make?

Equation: _____

Answer: rolls

8. Write an equation for the story.

Then write the answer.

Lena has $\frac{1}{4}$ pound of clay. She splits it equally into 7 balls. How much clay is in each ball?

Equation: _____

Answer: pound

9. Divide. Write each answer in simplest form.

$$\frac{3}{5} \div \frac{3}{4} = \boxed{}$$

$$1\frac{1}{3} \div \frac{5}{6} = \boxed{}$$

10. Write each fraction as a decimal.

Write the decimal as a mixed number.

$$2\frac{7}{8} = \underline{\hspace{2cm}} \qquad \frac{19}{20} = \underline{\hspace{2cm}}$$

$$3.666... = \boxed{} \frac{\boxed{}}{\boxed{}}$$

11. Mark each number on the line with its letter. Then write the numbers from least to greatest.



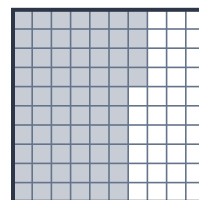
A: $2\frac{1}{5}$

B: 2.7

C: $\frac{13}{5}$

_____ < _____ < _____

12. Fill in the blanks. Write the fraction in simplest form.



Shaded:

$$\underline{\hspace{2cm}} \% = \frac{\boxed{}}{\boxed{}}$$

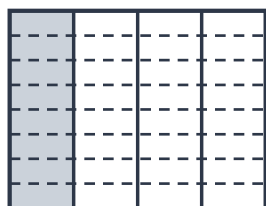
$$\frac{7}{50} = \underline{\hspace{2cm}} \%$$

Dividing Fractions

Unit Test, Form B (page 1 of 2)

Score _____ / 12

1. Shade one piece of the shaded part. Then divide.



$$\frac{1}{4} \div 8 = \boxed{}$$

2. Divide.

$$\frac{1}{3} \div 7 = \boxed{} \quad \frac{1}{10} \div 2 = \boxed{}$$

3. How many halves are in 7? Draw the jumps. Then divide.



$$7 \div \frac{1}{2} = \boxed{}$$

4. Divide.

$$6 \div \frac{1}{12} = \boxed{} \quad 10 \div \frac{1}{8} = \boxed{}$$

5. Divide. Then write a multiplication that checks it.

$$\frac{1}{6} \div 9 = \boxed{}$$

Check: $\boxed{} \times \boxed{} = \boxed{}$

6. Find each missing number.

$$\frac{1}{2} \div \boxed{} = \frac{1}{16} \quad \boxed{} \div \frac{1}{10} = 50$$

Dividing Fractions

Unit Test, Form B (page 2 of 2)

7. Write an equation for the story.
Then write the answer.

Sam has 5 hours to practice piano.
Each song takes $\frac{1}{6}$ hour. How many
songs can he practice?

Equation: _____

Answer: songs

8. Write an equation for the story.
Then write the answer.

A painter splits $\frac{1}{3}$ gallon of paint
equally among 9 birdhouses. How
much paint does each birdhouse get?

Equation: _____

Answer: gallon

9. Divide. Write each answer in
simplest form.

$$\frac{5}{12} \div \frac{2}{3} = \boxed{}$$

$$1\frac{1}{4} \div \frac{3}{8} = \boxed{}$$

10. Write each fraction as a decimal.
Write the decimal as a mixed
number.

$$1\frac{1}{8} = \underline{\hspace{2cm}} \qquad \frac{13}{25} = \underline{\hspace{2cm}}$$

$$4.333... = \boxed{} \frac{\boxed{}}{\boxed{}}$$

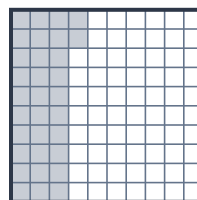
11. Mark each number on the line with
its letter. Then write the numbers
from least to greatest.



A: $3\frac{1}{5}$ B: 3.9 C: $\frac{18}{5}$

 < <

12. Fill in the blanks. Write the
fraction in simplest form.



Shaded: $\frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$
 $\frac{31}{50} = \underline{\hspace{2cm}} \%$

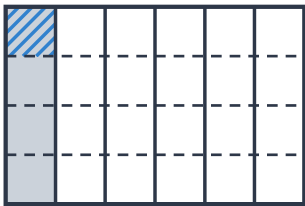
Dividing Fractions

Unit Test, Form A (page 1 of 2)

Score _____ / 12

1. Shade one piece of the shaded part. Then divide.

One way



$$\frac{1}{6} \div 4 = \frac{1}{24}$$

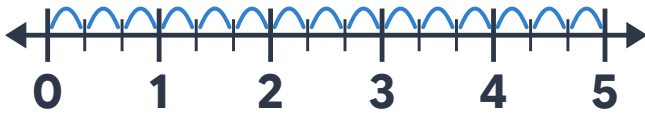
Lesson 9.1 · A unit fraction divided by a whole number

2. Divide.

$$\frac{1}{2} \div 9 = \frac{1}{18} \quad \frac{1}{8} \div 5 = \frac{1}{40}$$

Lesson 9.1 · A unit fraction divided by a whole number

3. How many thirds are in 5? Draw the jumps. Then divide.



$$5 \div \frac{1}{3} = 15$$

Lesson 9.2 · A whole number divided by a unit fraction

4. Divide.

$$8 \div \frac{1}{6} = 48 \quad 9 \div \frac{1}{4} = 36$$

Lesson 9.2 · A whole number divided by a unit fraction

5. Divide. Then write a multiplication that checks it.

$$\frac{1}{12} \div 3 = \frac{1}{36}$$

either order

Check: $\frac{1}{36} \times 3 = \frac{1}{12}$

Lesson 9.3 · Check by multiplying

6. Find each missing number.

$$\frac{1}{5} \div 7 = \frac{1}{35} \quad 10 \div \frac{1}{4} = 40$$

Lesson 9.3 · Check by multiplying

Dividing Fractions

Unit Test, Form A (page 2 of 2)

7. Write an equation for the story.
Then write the answer.

A baker has 3 pounds of dough. Each roll uses $\frac{1}{8}$ pound. How many rolls can she make?

Equation: $3 \div \frac{1}{8} = 24$ One way

Answer: **24** rolls

Lesson 9.4 · Fraction division stories

8. Write an equation for the story.
Then write the answer.

Lena has $\frac{1}{4}$ pound of clay. She splits it equally into 7 balls. How much clay is in each ball?

Equation: $\frac{1}{4} \div 7 = \frac{1}{28}$ One way

Answer: **$\frac{1}{28}$** pound

Lesson 9.4 · Fraction division stories

9. Divide. Write each answer in simplest form.

$$\frac{3}{5} \div \frac{3}{4} = \boxed{\frac{4}{5}}$$

$$1\frac{1}{3} \div \frac{5}{6} = \boxed{1\frac{3}{5}} \text{ or } \frac{8}{5}$$

Lesson 9.5 · A fraction divided by a fraction

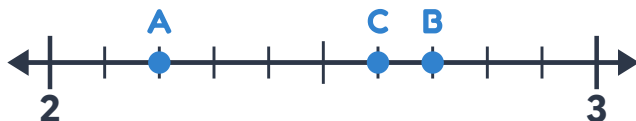
10. Write each fraction as a decimal.
Write the decimal as a mixed number.

$$2\frac{7}{8} = \underline{2.875} \quad \frac{19}{20} = \underline{0.95}$$

$$3.666... = \boxed{3} \frac{\boxed{2}}{\boxed{3}} \text{ or } \frac{11}{3}$$

Lesson 9.6 · Fractions as decimals and back

11. Mark each number on the line with its letter. Then write the numbers from least to greatest.

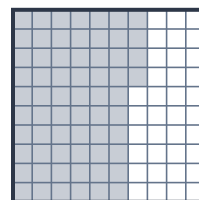


$$\text{A: } 2\frac{1}{5} \quad \text{B: } 2.7 \quad \text{C: } \frac{13}{5}$$

$$\underline{2\frac{1}{5}} < \underline{\frac{13}{5}} < \underline{2.7}$$

Lesson 9.7 · Compare and order on a number line

12. Fill in the blanks. Write the fraction in simplest form.



$$\begin{aligned} \text{Shaded: } \underline{64} \% &= \frac{\boxed{16}}{\boxed{25}} \\ \frac{7}{50} &= \underline{14} \% \end{aligned}$$

Lesson 9.8 · Percents as parts of 100

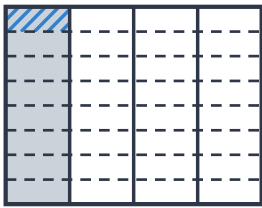
Dividing Fractions

Unit Test, Form B (page 1 of 2)

Score _____ / 12

1. Shade one piece of the shaded part. Then divide.

One way



$$\frac{1}{4} \div 8 = \frac{1}{32}$$

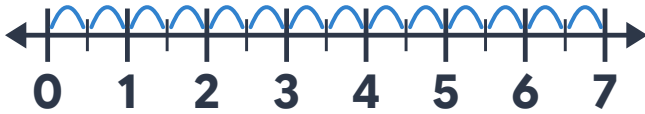
Lesson 9.1 · A unit fraction divided by a whole number

2. Divide.

$$\frac{1}{3} \div 7 = \frac{1}{21} \quad \frac{1}{10} \div 2 = \frac{1}{20}$$

Lesson 9.1 · A unit fraction divided by a whole number

3. How many halves are in 7? Draw the jumps. Then divide.



$$7 \div \frac{1}{2} = 14$$

Lesson 9.2 · A whole number divided by a unit fraction

4. Divide.

$$6 \div \frac{1}{12} = 72 \quad 10 \div \frac{1}{8} = 80$$

Lesson 9.2 · A whole number divided by a unit fraction

5. Divide. Then write a multiplication that checks it.

$$\frac{1}{6} \div 9 = \frac{1}{54}$$

Check: $\frac{1}{54} \times 9 = \frac{1}{6}$ either order

Lesson 9.3 · Check by multiplying

6. Find each missing number.

$$\frac{1}{2} \div 8 = \frac{1}{16} \quad 5 \div \frac{1}{10} = 50$$

Lesson 9.3 · Check by multiplying

Dividing Fractions

Unit Test, Form B (page 2 of 2)

7. Write an equation for the story.
Then write the answer.

Sam has 5 hours to practice piano.
Each song takes $\frac{1}{6}$ hour. How many songs can he practice?

Equation: $5 \div \frac{1}{6} = 30$ One way

Answer: 30 songs

Lesson 9.4 · Fraction division stories

8. Write an equation for the story.
Then write the answer.

A painter splits $\frac{1}{3}$ gallon of paint
equally among 9 birdhouses. How
much paint does each birdhouse get?

Equation: $\frac{1}{3} \div 9 = \frac{1}{27}$ One way

Answer: $\frac{1}{27}$ gallon

Lesson 9.4 · Fraction division stories

9. Divide. Write each answer in
simplest form.

$$\frac{5}{12} \div \frac{2}{3} = \frac{5}{8}$$

$$1\frac{1}{4} \div \frac{3}{8} = 3\frac{1}{3} \text{ or } \frac{10}{3}$$

Lesson 9.5 · A fraction divided by a fraction

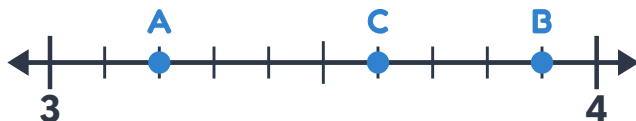
10. Write each fraction as a decimal.
Write the decimal as a mixed
number.

$$1\frac{1}{8} = 1.125 \quad \frac{13}{25} = 0.52$$

$$4.333... = 4\frac{1}{3} \text{ or } \frac{13}{3}$$

Lesson 9.6 · Fractions as decimals and back

11. Mark each number on the line with
its letter. Then write the numbers
from least to greatest.

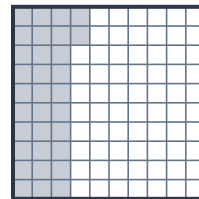


$$A: 3\frac{1}{5} \quad B: 3.9 \quad C: \frac{18}{5}$$

$$3\frac{1}{5} < \frac{18}{5} < 3.9$$

Lesson 9.7 · Compare and order on a number line

12. Fill in the blanks. Write the
fraction in simplest form.



Shaded:

$$\frac{32}{50} \% = \frac{8}{25}$$

$$\frac{31}{50} = 62 \%$$

Lesson 9.8 · Percents as parts of 100