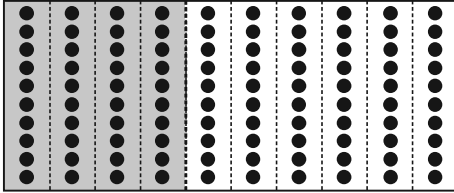


Use the visual to fill in each blank.

- 1 The shaded part of the whole represents:

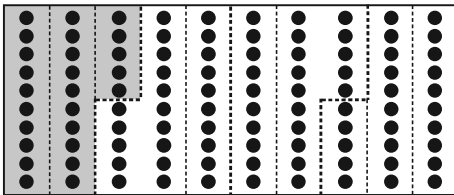
$$\frac{40}{100} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts and the decimal } \underline{\hspace{2cm}}.$$

$$\frac{4}{10} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts and the decimal } \underline{\hspace{2cm}}.$$



- 2 The shaded part of the whole represents:

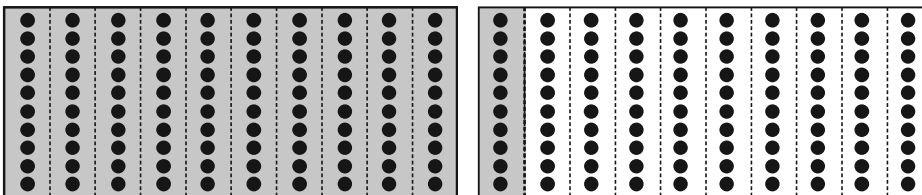
$$\frac{25}{100} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts, } \frac{1}{4} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts, and the decimal } \underline{\hspace{2cm}}.$$



- 3 The shaded part of the whole represents:

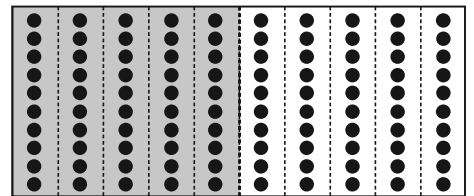
$$\frac{110}{100} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts, } \frac{11}{10} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts,}$$

$$1\frac{1}{10} = \underline{\hspace{2cm}} \text{ whole and } \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts, and the decimal } \underline{\hspace{2cm}}.$$



Solve.

- 4 Juan shaded a part of the whole. Four fractions represent the shaded part of the whole. List each fraction. Explain how each fraction relates to the shaded part of the whole.




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Convert each measurement.

1 12 hrs = \_\_\_\_\_ min

2 2 months = \_\_\_\_\_ wks

3 43 min = \_\_\_\_\_ sec

4 6 days = \_\_\_\_\_ hrs

Write the equivalent mixed number.

5  $\frac{12}{5}$  = \_\_\_\_\_

6  $\frac{19}{4}$  = \_\_\_\_\_

7  $\frac{15}{2}$  = \_\_\_\_\_

8  $\frac{29}{3}$  = \_\_\_\_\_

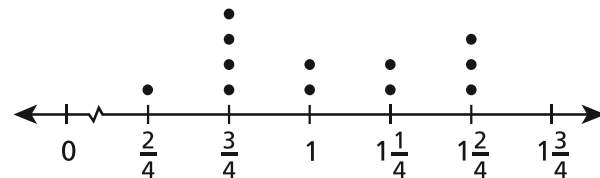
9  $\frac{49}{8}$  = \_\_\_\_\_

10  $\frac{37}{6}$  = \_\_\_\_\_

The line plot shows how much hair Emmy had cut each time she went to the hair dresser this year. Use the line plot to answer Exercises 11–12.

- 11 How many times did Emmy get her hair cut in the year?

\_\_\_\_\_



- 12 How much longer was the length of hair Emmy had cut most often than the length of hair she had cut least often?

\_\_\_\_\_

- 13 **Stretch Your Thinking** Milo has 3 quarters in his right pocket and 8 dimes in his left pocket. Show the amount of money Milo has in each pocket as a sum of fractions and as a sum of decimals. In which pocket is there more money?

\_\_\_\_\_

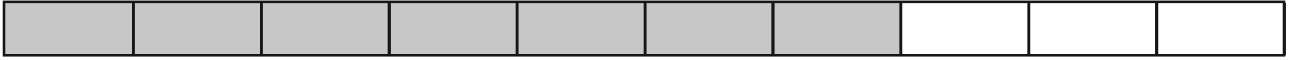
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

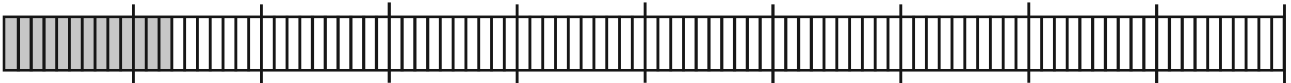
\_\_\_\_\_

Write a fraction and a decimal number to show what part of each bar is shaded.



1 Fraction: \_\_\_\_\_

Decimal Number: \_\_\_\_\_



2 Fraction: \_\_\_\_\_

Decimal Number: \_\_\_\_\_

Write these amounts as decimal numbers.

3 5 tenths \_\_\_\_\_

4 9 hundredths \_\_\_\_\_

5 56 hundredths \_\_\_\_\_

6  $\frac{80}{100}$  \_\_\_\_\_

7  $\frac{3}{10}$  \_\_\_\_\_

8  $\frac{1}{100}$  \_\_\_\_\_

9 3 cents \_\_\_\_\_

10 2 quarters \_\_\_\_\_

11 3 nickels \_\_\_\_\_

Answer the questions below.

12 If you took a test with 10 questions and got 7 of them right, what decimal part would that be? \_\_\_\_\_  
What decimal part did you get wrong? \_\_\_\_\_

13 If you had a dollar and spent 5 cents, what decimal amount did you spend? \_\_\_\_\_ What decimal amount do you have left? \_\_\_\_\_

14 If you had a bag of 100 beads and used 40, what decimal number did you use? Express this number in both tenths and hundredths. \_\_\_\_\_

15 If you had to travel 100 miles and went 25 miles, what decimal part of the trip did you travel? \_\_\_\_\_  
What decimal part of the trip do you still have left? \_\_\_\_\_

Convert.

①  $7 \text{ ft} = \underline{\hspace{2cm}}$  in.

②  $4 \text{ mi} = \underline{\hspace{2cm}}$  yd

③  $15 \text{ yd} = \underline{\hspace{2cm}}$  ft

④  $2 \text{ yd} = \underline{\hspace{2cm}}$  in.

Add or subtract.

⑤ 
$$\begin{array}{r} 8\frac{4}{8} \\ + 2\frac{2}{8} \\ \hline \end{array}$$

⑥ 
$$\begin{array}{r} 1\frac{1}{3} \\ + 7\frac{1}{3} \\ \hline \end{array}$$

⑦ 
$$\begin{array}{r} 5\frac{11}{12} \\ - 1\frac{5}{12} \\ \hline \end{array}$$

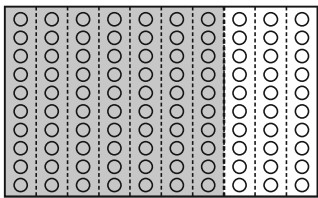
⑧ 
$$\begin{array}{r} 8\frac{2}{5} \\ - 7\frac{4}{5} \\ \hline \end{array}$$

Use the visual to fill in each blank.

⑨ The shaded part of the whole represents:

$\frac{70}{100}$  represents \_\_\_\_\_ of \_\_\_\_\_ equal parts  
and the decimal \_\_\_\_\_.

$\frac{7}{10}$  represents \_\_\_\_\_ of \_\_\_\_\_ equal parts  
and the decimal \_\_\_\_\_.



⑩ **Stretch Your Thinking** Rosemary put 7 dimes and 3 pennies in a tip jar at the café. Show this amount as a decimal and as a fraction. How much more change would Rosemary have to put in the tip jar to make a whole dollar?

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Write the decimal numbers that come next.

① 0.05   0.06   0.07   \_\_\_\_\_   \_\_\_\_\_   \_\_\_\_\_   \_\_\_\_\_

② 0.26   0.27   0.28   \_\_\_\_\_   \_\_\_\_\_   \_\_\_\_\_   \_\_\_\_\_

③ 0.3   0.4   0.5   \_\_\_\_\_   \_\_\_\_\_   \_\_\_\_\_   \_\_\_\_\_

Write each number in decimal form.

④ 9 tenths \_\_\_\_\_      ⑤ 5 hundredths \_\_\_\_\_      ⑥ 29 hundredths \_\_\_\_\_

⑦  $\frac{73}{100}$  \_\_\_\_\_      ⑧  $\frac{2}{10}$  \_\_\_\_\_      ⑨  $\frac{8}{100}$  \_\_\_\_\_

⑩ 4 pennies \_\_\_\_\_      ⑪ 3 quarters \_\_\_\_\_      ⑫ 6 dimes and 1 nickel \_\_\_\_\_

Solve.

A small jar contains 4 white gumballs and 6 red gumballs.

⑬ What decimal number shows which part of the gumballs are red? \_\_\_\_\_

⑭ What decimal number shows which part of the gumballs are white? \_\_\_\_\_

⑮ A large jar of 100 gumballs has the same fractions of red gumballs and white gumballs as the small jar. How many gumballs in the large jar are red? \_\_\_\_\_ How many are white? \_\_\_\_\_

A sidewalk has 100 squares. There are cracks in 9 of the squares.

⑯ What decimal number shows what part of the sidewalk is cracked? \_\_\_\_\_

⑰ What fraction shows what part of the sidewalk is cracked? \_\_\_\_\_

Write each decimal tenth as a decimal hundredth.

⑱  $0.6 =$  \_\_\_\_\_      ⑲  $0.2 =$  \_\_\_\_\_      ⑳  $0.5 =$  \_\_\_\_\_

Solve.

*Show your work.*

- 1 Mena bought a 1-gallon jug of water. How many 2-cup servings are in the jug?

\_\_\_\_\_

- 2 Kaden's filled backpack weighs 7 pounds. How many ounces does the backpack weigh?

\_\_\_\_\_

Add or subtract.

3  $\frac{7}{8} - \frac{3}{8} =$

4  $\frac{1}{4} + \frac{3}{4} =$

5  $10\frac{11}{12} - 5\frac{4}{12} =$

6  $\frac{2}{3} + \frac{2}{3} =$

7  $\frac{4}{9} + 3\frac{4}{9} =$

8  $8\frac{5}{6} - 4\frac{4}{6} =$

Write these amounts as decimal numbers.

9 8 tenths \_\_\_\_\_

10 5 hundredths \_\_\_\_\_

11 27 hundredths \_\_\_\_\_

12  $\frac{2}{100}$  \_\_\_\_\_

13  $\frac{93}{100}$  \_\_\_\_\_

14  $\frac{7}{10}$  \_\_\_\_\_

15 46 pennies \_\_\_\_\_

16 3 nickels \_\_\_\_\_

17 9 dimes \_\_\_\_\_

- 18 **Stretch Your Thinking** Ben says that 0.80 is greater than 0.8 because 80 is greater than 8. Explain his error.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Write each number in decimal form.

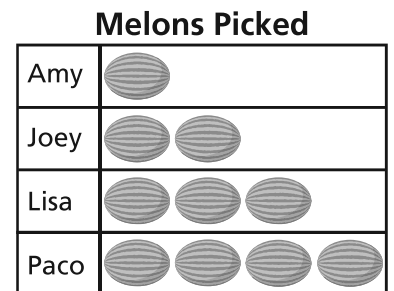
- 1 6 tenths \_\_\_\_\_      2 85 hundredths \_\_\_\_\_      3 9 hundredths \_\_\_\_\_
- 4 7 tenths \_\_\_\_\_      5  $\frac{4}{100}$  \_\_\_\_\_      6  $2\frac{9}{10}$  \_\_\_\_\_
- 7  $\frac{23}{10}$  \_\_\_\_\_      8  $11\frac{3}{100}$  \_\_\_\_\_      9 6 cents \_\_\_\_\_
- 10 twelve *and* 5 tenths \_\_\_\_\_
- 11 thirty *and* 25 hundredths \_\_\_\_\_


Write each decimal in expanded form.

- 12 27.9 \_\_\_\_\_
- 13 153.76 \_\_\_\_\_
- 14 203.06 \_\_\_\_\_

Use the graph to answer questions 15–17.

- 15 What decimal part of all the melons did Amy pick? \_\_\_\_\_
- 16 What decimal part of all the melons did Paco pick? \_\_\_\_\_
- 17 What decimal part of all the melons did Joey and Lisa pick together? \_\_\_\_\_



Key:  = 1 melon

**Solve.**

- 18 A centipede has 100 legs. What decimal part is one leg? \_\_\_\_\_
- 19 At a banquet, each cake was cut into 100 pieces. The guests ate 4 whole cakes and all but one piece of another. What decimal number represents the number of cakes that were eaten? \_\_\_\_\_
- 20 Miguel earned \$10 and saved \$3. What decimal part did he save? \_\_\_\_\_
- 21 Jing earned \$100, and saved \$30. What decimal part did she save? \_\_\_\_\_

Add or subtract.

$$\begin{array}{r} 1 \quad 5,000 \\ - 3,296 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 286,361 \\ + 45,743 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 863,542 \\ - 794,815 \\ \hline \end{array}$$

Multiply.

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

$$5 \quad 9 \times \frac{2}{3} =$$

$$6 \quad 3 \times \frac{7}{8} =$$

$$7 \quad 2 \times \frac{5}{12} =$$

$$8 \quad 5 \times \frac{6}{7} =$$

$$9 \quad 7 \times \frac{9}{10} =$$

Write the decimal numbers that come next.

$$10 \quad 0.03 \quad 0.04 \quad 0.05 \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}}$$

$$11 \quad 0.2 \quad 0.3 \quad 0.4 \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}}$$

$$12 \quad 0.75 \quad 0.76 \quad 0.77 \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}} \quad \underline{\hspace{1cm}}$$

Write each decimal tenth as a decimal hundredth.

$$13 \quad 0.4 = \underline{\hspace{1cm}}$$

$$14 \quad 0.9 = \underline{\hspace{1cm}}$$

$$15 \quad 0.1 = \underline{\hspace{1cm}}$$

$$16 \quad 0.3 = \underline{\hspace{1cm}}$$

$$17 \quad 0.5 = \underline{\hspace{1cm}}$$

$$18 \quad 0.7 = \underline{\hspace{1cm}}$$

- 19 Stretch Your Thinking** A handful of paperclips is 5.2 grams. A handful of push pins is 500 centigrams. Which handful weighs more? Explain.

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Write these amounts as decimal numbers.

- ① 4 tenths \_\_\_\_\_      ② 72 hundredths \_\_\_\_\_      ③ 6 hundredths \_\_\_\_\_  
 ④ 8 cents \_\_\_\_\_      ⑤  $\frac{68}{100}$  \_\_\_\_\_      ⑥  $9\frac{4}{10}$  \_\_\_\_\_  
 ⑦  $\frac{16}{100}$  \_\_\_\_\_      ⑧  $6\frac{7}{100}$  \_\_\_\_\_      ⑨ 30 hundredths \_\_\_\_\_

Circle the number that does not have the same value as the others.

- ⑩ 0.95    0.950    0.905      ⑪ 0.2    0.20    0.02  
 ⑫ 0.730    0.703    0.73      ⑬ 1.6    1.60    1.06  
 ⑭ 0.59    5.90     $\frac{59}{100}$       ⑮ 0.08    0.008    0.080

Write  $>$ ,  $<$ , or  $=$  to compare these numbers.

- ⑯ 4.67 ○ 12.7    ⑰ 0.35 ○ 0.4    ⑱ 4.58 ○ 1.25    ⑲ 8.3 ○ 0.83  
 ⑳ 0.92 ○ 0.91    ㉑ 2.3 ○ 0.84    ㉒ 10.1 ○ 10.01    ㉓ 7.4 ○ 0.74

The table shows how far four students jumped in the long jump contest. Use the table to answer the questions.

- ㉔ Whose jump was longest? \_\_\_\_\_  
 ㉕ Whose jump was shortest? \_\_\_\_\_  
 ㉖ Which two students jumped the same distance? \_\_\_\_\_

Long Jump Contest

Name	Length of Jump
Joshua	1.60 meters
Amanda	1.59 meters
Hester	1.7 meters
Miguel	1.6 meters

Choose a measurement unit for each rectangle and find the area and perimeter. Show your work.

① 11 by 8

\_\_\_\_\_

\_\_\_\_\_

② 5 by 9

\_\_\_\_\_

\_\_\_\_\_

③ 2 by 6

\_\_\_\_\_

\_\_\_\_\_

**Multiply.**

④  $5 \cdot \frac{2}{3} =$  \_\_\_\_\_

⑤  $12 \cdot \frac{1}{5} =$  \_\_\_\_\_

⑥  $8 \cdot \frac{4}{7} =$  \_\_\_\_\_

⑦  $6 \cdot \frac{3}{8} =$  \_\_\_\_\_

**Solve.**

- ⑧ There are 10 servings in a bag of pretzels. At a school picnic, 3 whole bags are eaten and 7 servings of another bag. What decimal number represents the number of bags of pretzels that are eaten?

\_\_\_\_\_

- ⑨ **Stretch Your Thinking** Lance says that you can compare any decimal numbers the way that you alphabetize words. You can tell which number is less (or which word comes first in the dictionary) by comparing each digit (or letter) from left to right. Is Lance's thinking correct? Give a numerical example to explain your reasoning.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Write  $>$ ,  $<$ , or  $=$  to compare these numbers.

1  $\frac{3}{4} \bigcirc \frac{2}{8}$

2  $\frac{4}{10} \bigcirc \frac{4}{5}$

3  $1\frac{3}{6} \bigcirc 2\frac{3}{6}$

4  $1\frac{1}{6} \bigcirc 1\frac{1}{4}$

5  $2\frac{7}{8} \bigcirc 2\frac{3}{7}$

6  $1\frac{4}{9} \bigcirc 1\frac{5}{10}$

Complete.

7  $\frac{3}{9} = \frac{3 \times \square}{9 \times \square} = \frac{\square}{45}$

8  $\frac{6}{10} = \frac{6 \times \square}{10 \times \square} = \frac{12}{\square}$

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

10  $\frac{24}{30} = \frac{24 \div \square}{30 \div \square} = \frac{\square}{5}$

11  $\frac{28}{35} = \frac{28 \div \square}{35 \div 7} = \frac{\square}{\square}$

12  $\frac{6}{18} = \frac{6 \div \square}{18 \div \square} = \frac{1}{\square}$

Solve.

- 13 Cole lives 2.4 miles from the library. Gwen lives 2.04 miles from the library. Xander lives 2.40 miles from the library. Who lives closest to the library: Cole, Gwen, or Xander?
- \_\_\_\_\_

- 14 After making his art project, Robbie has  $\frac{2}{10}$  yard of rope left. What is  $\frac{2}{10}$  written as a decimal?
- \_\_\_\_\_

Show your work.

Solve.

*Show your work.*

- 1 A 2-quart bottle of juice has 1,040 calories. Each serving is 1 cup. How many calories are in each serving of the juice?

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- 2 The perimeter of a photograph is 20 inches. The longer side of the photograph is 6 inches. What is the length of the shorter side?

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Write an equation. Then solve.

- 3 Peggy needs  $\frac{3}{4}$  cup of flour for each batch of pancakes. If she makes 5 batches of pancakes, how many cups of flour does she use?

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Compare. Use  $<$  or  $>$ .

4  $26.3 \bigcirc 8.3$       5  $5.09 \bigcirc 5.9$       6  $1.7 \bigcirc 7.1$       7  $84.2 \bigcirc 8.42$

8  $9.40 \bigcirc 9.04$       9  $57 \bigcirc 5.7$       10  $11.28 \bigcirc 12.8$       11  $6.31 \bigcirc 6.13$

- 12 **Stretch Your Thinking** On the first day of a trip, the Brenner family hikes 2.8 miles. On the second day, they hike  $1\frac{2}{5}$  miles along a trail. They take a break, and hike back to where they started. Did they hike more the first day or the second day? Explain.

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