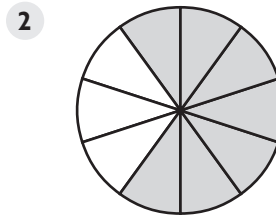
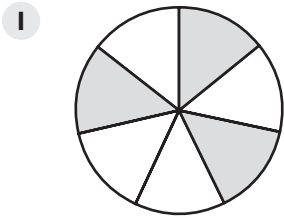


Homework Practice

Write a fraction to represent each shaded region.



Draw a picture to model each fraction. Use equal parts of a whole or set.

5 $\frac{4}{7}$

6 $\frac{1}{8}$

Solve.

7 **ANIMALS** A dog had 7 puppies. If 3 of the puppies are female, what fraction of them are male?

8 **BUILDING** A house has 20 windows. If 7 of the windows have shutters, what fraction of the windows do not have shutters?

9 **SCHOOL** Sharika's math exam had 15 questions. She answered 13 of the questions correctly. What fraction of the questions did she answer incorrectly?

Write the vocabulary word that completes the sentence.

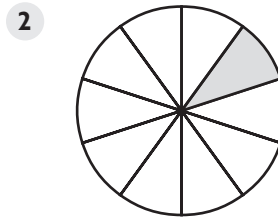
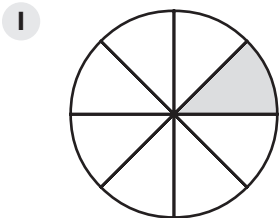
10 Six-sevenths ($\frac{6}{7}$) is an example of a _____.

The _____ is 6 and the _____ is 7.

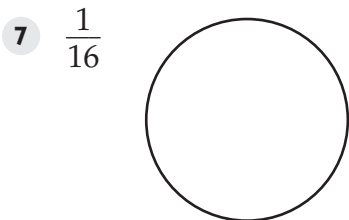
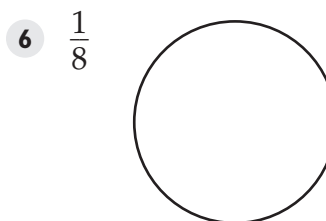
11 The entire amount or object is called the _____.

Homework Practice

Write the unit fraction that represents the shaded region.



Show where you make cuts to create each unit fraction.



Compare. Write $<$, $=$, or $>$ to make each a true statement.

9 $\frac{1}{6}$ ○ $\frac{1}{2}$

10 $\frac{1}{11}$ ○ $\frac{1}{9}$

11 $\frac{1}{16}$ ○ $\frac{1}{20}$

12 $\frac{1}{15}$ ○ $\frac{1}{18}$

Solve.

13 **NATURE** Mr. Lavin planted 12 cabbage plants. A rabbit ate one of the plants. What fraction of the plants were eaten by the rabbit? _____

14 **PACKAGING** Mylene's suitcase has 3 equally-sized sections. She packs one section with socks, one with shirts, and one with pants. What fraction represents the space used to pack shirts? _____

Homework Practice

Write each mixed number as an improper fraction.

1 $5\frac{2}{3} =$ _____

2 $4\frac{5}{7} =$ _____

3 $1\frac{1}{12} =$ _____

4 $2\frac{11}{12} =$ _____

5 $8\frac{2}{9} =$ _____

6 $6\frac{2}{5} =$ _____

Write each improper fraction as a mixed number.

7 $\frac{21}{8} =$ _____

8 $\frac{13}{2} =$ _____

9 $\frac{45}{7} =$ _____

10 $\frac{11}{4} =$ _____

11 $\frac{39}{5} =$ _____

12 $\frac{53}{12} =$ _____

Solve.

- 13 **CRAFTS** Denise is making stuffed animals. She uses buttons for decoration on the animals. She bought 9 packages of buttons. Each package has 6 buttons. Denise used a total of 33 buttons. Write the number of packages Denise used as an improper fraction and as a mixed number.
- _____

Write the vocabulary word that completes each sentence.

- 14 The number $\frac{17}{5}$ is an example of a(n) _____.
- 15 The number $3\frac{1}{4}$ is an example of a(n) _____.

Homework Practice

Complete to name an equivalent fraction.

1 $\frac{12}{22} = \frac{6}{\square}$

2 $\frac{3}{7} = \frac{15}{\square}$

3 $\frac{10}{17} = \frac{20}{\square}$

4 $\frac{4}{16} = \frac{\square}{4}$

5 $\frac{1}{9}$ _____

6 $\frac{6}{10}$ _____

7 $\frac{5}{7}$ _____

8 $\frac{2}{3}$ _____

9 $\frac{8}{20}$ _____

10 $\frac{15}{25}$ _____

11 $\frac{7}{11}$ _____

12 $\frac{9}{36}$ _____

Solve.

13 **CRAFTS** Keisha had two pieces of ribbon of equal length. She cut the first piece of ribbon into 15 equal parts. She also cut the second piece of ribbon into equal parts. Nine parts of the first piece are equal in length to 3 parts of the second piece. Into how many parts did she cut the second piece of ribbon? _____

14 **GARDENING** Lisa and Calvin have herb gardens of equal size. Oregano takes up $\frac{2}{9}$ of Lisa's garden and $\frac{4}{18}$ of Calvin's garden. Do Lisa and Calvin use equal amounts of their gardens for oregano? Explain your answer. _____

Write the vocabulary word that completes the sentence.

15 The amount of a number is its _____.

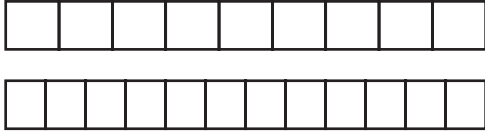
16 A(n) _____ is any nonzero number divided by itself.

17 _____ are fractions that represent the same number.

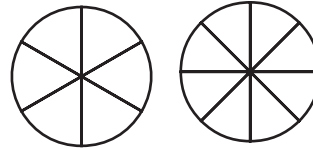
Homework Practice

Use $<$, $=$, or $>$ to compare the fractions. Shade the models given.

1 $\frac{2}{9} \bigcirc \frac{4}{12}$



2 $\frac{4}{6} \bigcirc \frac{5}{8}$



Order the fractions from least to greatest.

3 $\frac{7}{8}$, $\frac{3}{5}$ and $\frac{1}{3}$ _____

4 $\frac{1}{2}$, $\frac{3}{8}$ and $\frac{4}{10}$ _____

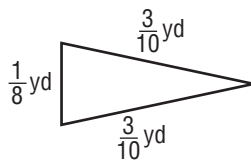
5 $\frac{1}{4}$, $\frac{4}{9}$ and $\frac{2}{5}$ _____

6 $\frac{7}{10}$, $\frac{8}{12}$ and $\frac{6}{15}$ _____

Solve.

7 **PETS** Amelia has two pet rats, Daisy and Rover. Daisy weighs $\frac{3}{8}$ pound and Rover weighs $\frac{5}{7}$ pound. Which rat weighs more? _____

8 **CRAFTS** Bonita is using ribbon to decorate the perimeter of the flag shown below. The perimeter is found by adding the lengths of the sides of the triangle. She buys $\frac{3}{4}$ yard of ribbon. Does she have enough ribbon to decorate the perimeter of the flag? Explain how you found your answer. _____



Homework Practice

Estimate the value of each fraction or mixed number. Draw pictures to help you.

1 $\frac{7}{12}$ _____



2 $4\frac{6}{8}$ _____



Use a number line to estimate the value of each mixed number. Round to the nearest $\frac{1}{2}$.

3 $3\frac{5}{12}$ _____



4 $2\frac{4}{5}$ _____



5 $5\frac{1}{7}$ _____



6 $1\frac{5}{9}$ _____



7 **SPORTS** Matías jumped $7\frac{4}{7}$ feet in a broad jump contest. To the nearest half foot, how far did he jump? _____

8 **SCHOOL** Ella spent $3\frac{7}{9}$ days reading a book for school. To the nearest half day, how long did it take her to read the book? _____

Write the vocabulary word that completes each sentence.

9 In this lesson 0, $\frac{1}{2}$, and 1 were the _____ that you used to estimate the value of a fraction.

10 A(n) _____ is a number close to an exact amount that tells how much.

2-1 Homework Practice

Find the GCF of each set of numbers.

1 17 and 34 _____

2 9 and 15 _____

3 4, 8, and 14 _____

4 16, 60, and 100 _____

5 4, 8, and 20 _____

6 36, 84, and 96 _____

7

	63	81
	○	○
○	○	○ ○ ○ ○

Solve.

8 **FITNESS** A workout facility has 42 treadmills and 48 elliptical machines. The owner wants to arrange the machines equally in rows without mixing them. What is the greatest number of machines that could be in each row? _____

9 **FLAGS** Kimari works as a set director for Jones Theatre. She needs to put together several arrangements of colored flags for a special performance. There will be one color in each arrangement, and all the flags will be divided equally. She has 6 blue flags, 21 red flags, and 15 white flags. How many should she put in each arrangement? _____

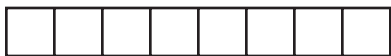
Write the vocabulary terms that complete the sentence.

10 Thirty-one is a _____ number because its _____ are 1 and 31.

2-2 Homework Practice

Write each fraction in simplest form. Use models.

1 $\frac{10}{16} =$



2 $\frac{6}{9} =$



Write each fraction in simplest form. Divide by the GCF.

3 $\frac{5}{50}$ _____

4 $\frac{8}{36}$ _____

5 $\frac{12}{70}$ _____

6 $\frac{18}{42}$ _____

Write each fraction in simplest form. Use prime factorization.

7 $\frac{15}{100}$ _____

8 $\frac{20}{30}$ _____

9 $\frac{54}{81}$ _____

10 $\frac{8}{44}$ _____

Solve.

- 11 **PHOTOGRAPHS** Millie took 36 pictures using her digital camera. She deleted 8 pictures. In simplest form, what fraction of the pictures did Millie keep? _____

- 12 **SURVEY** A supermarket surveyed 100 people about their favorite brand of orange juice. Thirty-five people said *Sunshine State* orange juice is their favorite brand. In simplest form, what fraction of the people surveyed did **not** say *Sunshine State* orange juice was their favorite brand? _____

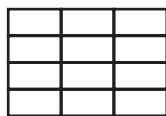
Write the vocabulary words that complete the sentence.

- 13 To write a fraction in _____ you can divide the numerator and denominator by the _____.

2-3 Homework Practice

Multiply using drawings. Write each product in simplest form.

1 $\frac{1}{3} \times \frac{1}{4} =$ _____



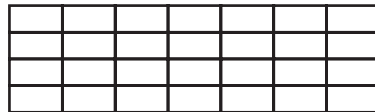
2 $\frac{3}{1} \times \frac{1}{5} =$ _____



3 $\frac{2}{3} \times \frac{1}{6} =$ _____



4 $\frac{1}{4} \times \frac{3}{7} =$ _____



Multiply. Write each product in simplest form.

5 $\frac{7}{12} \times \frac{4}{5} =$ _____

6 $\frac{4}{11} \times \frac{5}{7} =$ _____

7 $\frac{5}{8} \times \frac{2}{6} =$ _____

8 $\frac{4}{7} \times \frac{3}{4} =$ _____

9 $\frac{2}{9} \times \frac{2}{3} =$ _____

10 $\frac{6}{6} \times \frac{5}{10} =$ _____

11 $\frac{11}{12} \times \frac{1}{2} =$ _____

12 $\frac{2}{8} \times \frac{5}{6} =$ _____

Solve.

- 13 **FOOD** Sachi bought some cherries. She gave $\frac{1}{5}$ of a pound of cherries to each of her 6 friends. How many total pounds of cherries did Sachi give to her friends? _____

- 14 **COLLECTIONS** Amy has a bug collection. Beetles take up $\frac{1}{2}$ of the collection, and $\frac{3}{4}$ of the beetles are June Bugs. What fraction of Amy's collection are June Bugs? _____

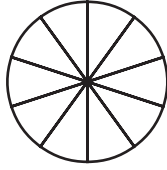
Write the vocabulary word that completes the sentence.

- 15 A _____ is a number that divides into a whole number evenly.

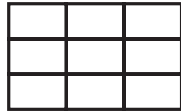
2-4 Homework Practice

Divide using drawings. Write each quotient in simplest form.

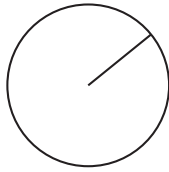
1 $\frac{5}{10} \div \frac{1}{4} =$ _____



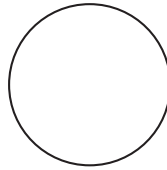
2 $\frac{6}{9} \div \frac{1}{12} =$ _____



3 $\frac{5}{7} \div \frac{1}{7} =$ _____



4 $\frac{1}{2} \div \frac{1}{8} =$ _____



Divide. Write each quotient in simplest form.

5 $\frac{1}{9} \div \frac{4}{5} =$ _____

6 $\frac{1}{4} \div \frac{7}{10} =$ _____

7 $\frac{5}{8} \div \frac{2}{7} =$ _____

8 $\frac{4}{6} \div \frac{5}{6} =$ _____

Solve. Write the answer in simplest form.

- 9 **SCHOOL** The middle school has reserved 4 school buses for a field trip to the museum. Only $\frac{2}{7}$ of the students are going on the field trip. If there is an equal number of students on each bus, what fraction of middle school students will be on each bus? _____

- 10 **PUZZLES** Cora put together $\frac{3}{4}$ of a jigsaw puzzle. She has been working on equal segments of the puzzle for 6 days. How much of the puzzle did she complete each day? _____

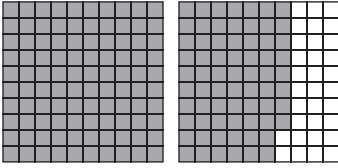
Write the vocabulary word that completes the sentence.

- 11 A _____ is the number that is being divided.

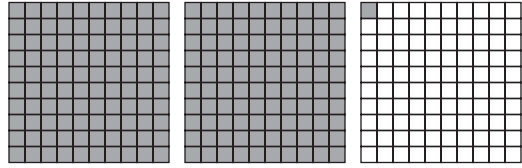
Homework Practice

Use the model to determine the value of the decimal.

1



2



Write each decimal in word form.

3 63.19 _____

4 5.8 _____

5 21.24 _____

Write each a decimal in standard form.

6 two and thirty-six hundredths _____

7 ninety-four and nine hundredths _____

8 twelve and four tenths _____

Solve.

9 **SWIMMING** Khalid is a competitive swimmer. His best time in the backstroke is thirty-one and ninety-seven hundredths seconds. What is Khalid's best time in standard form?

Write the vocabulary word(s) that completes each sentence.

10 One of ten equal parts is called a(n) _____. One of one hundred equal parts is called a(n) _____.

11 The third decimal place to the right of the decimal point is the _____ place.

12 The decimal 62.089 is written in _____.

Homework Practice

Write the value of the amount shown.

1 _____



2 _____



Represent each amount using the least number of bills and coins possible.

- 3 \$12.48 _____
- 4 \$3.09 _____
- 5 \$7.93 _____
- 6 \$10.22 _____
- 7 \$1.06 _____
- 8 \$6.51 _____

Use bills and coins to represent each amount in two ways.

- 9 \$5.17 _____
- 10 \$9.01 _____

Solve.

11 SNACKS Bonnie has \$5.38 to spend on a snack. Her friend Vara has the same amount of money, but the two friends do not have the same combination of bills and coins. Represent \$5.38 in two ways.

12 SUPPLIES Amit has two quarters, four dimes, and three pennies to buy a new pen. A black ballpoint pen costs 89¢ and a blue felt-tip pen costs 98¢. Which pen can Amit buy? _____

Write the vocabulary word that completes the sentence.

- 13 One, five, ten, and twenty are _____ of dollar bills in our money system.

Homework Practice

Round each decimal to the nearest whole number. Draw a number line or use rounding rules.

1 1.16 _____

2 6.93 _____

3 15.62 _____

4 39.41 _____

5 66.02 _____

6 3.84 _____

Round each decimal to the greatest place. Draw a number line or use rounding rules.

7 3.41 _____

8 8.77 _____

9 12.45 _____

10 26.88 _____

11 83.29 _____

12 40.98 _____

13 **MARGIN OF ERROR** A survey has a margin of error of 3.6 percent. What is the margin of error to the nearest percent? _____

14 **SHOPPING** Pilar spent \$62.87 on groceries for the week. How much did she spend to the nearest dollar? _____

15 **PETS** Noah's cat weighs 11.13 pounds. What does the cat weigh to the nearest pound? _____

Write the vocabulary word that completes each sentence.

16 The _____ include all counting numbers and zero.

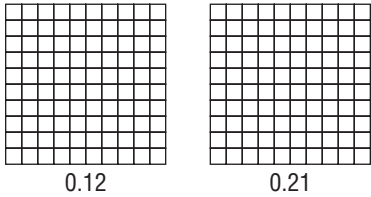
17 A(n) _____ is a number that has digits in the tenths place and beyond.

18 When you _____ a number, you find the nearest number based on a given place value.

Homework Practice

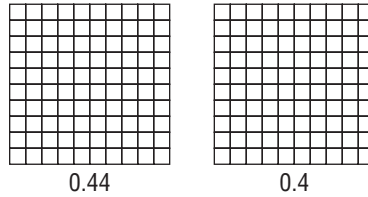
Compare each pair of decimals using models. Write $<$, $=$, or $>$ in each circle to make a true statement.

1 0.12 and 0.21



0.12 ○ 0.21

2 0.44 and 0.4



0.44 ○ 0.4

Write $<$, $=$, or $>$ in each circle to make a true statement.

3 21.78 ○ 21.089

4 10.6 ○ 10.17

5 5.24 ○ 5.42

6 29.5 ○ 29.50

Write the numbers in order from least to greatest.

7 11.6, 10.205, 10.05, 11.076

8 63.54, 65.32, 58.62, 56.24

Solve.

9 **STOCK MARKET** Nita follows the stock market. It has continued to go up for the past three days. On Wednesday, the market increased 12.5 points; on Thursday, 37.2 points; and on Friday, 22.5 points. Which day did the market go up the most? Which day did it go up the least?

10 **HEALTHCARE** A nurse is monitoring Lian's temperature. If it goes over 104.5°F , she needs to page the doctor. Lian's chart lists the last four readings as 102.5°F , 104.1°F , 103.7°F , and 102.9°F . Does the nurse need to call the doctor?

Write the vocabulary word that completes the sentence.

11 A(n) _____ is a number that represents whole numbers and fractions.

12 The first number to the right of a decimal point is in the _____ place.

Homework Practice

Compare each set of numbers.

1 $\frac{4}{5} \bigcirc 0.55$

2 $0.25 \bigcirc \frac{1}{4}$

Order the numbers from least to greatest.

3 $0.36, \frac{32}{100}, \frac{4}{10}$ _____

4 $1.54, 1.36, 1\frac{4}{100}$ _____

Order the numbers from greatest to least.

5 $0.1, \frac{1}{100}, \frac{3}{10}$ _____

6 $1\frac{5}{10}, \frac{7}{10}, 1.6$ _____

Solve.

7 **ELECTRICITY** Candace is testing electric circuit boards. The circuits need to measure between $4\frac{1}{2}$ and 5 volts. She gets readings of 4.81 volts, 4.97 volts, 4.45 volts, and 4.92 volts. Are any of the circuits out of the required range? If so, which one(s)?

8 **FOOTBALL** Nick wants to know what the highest rating is for the quarterbacks in his division. The ratings are $100\frac{1}{2}$, 101.6, $101\frac{3}{4}$, 98.5, and 82.1. What is the highest rating? _____

Write the vocabulary word that completes the sentence.

9 A(n) _____ is a number that represents a part of a whole or part of a set.

10 In a(n) _____, the decimal point separates the whole number from the fraction.

4-1 Homework Practice

Add using decimal models. Circle any regrouping.

1 $1.05 + 1.27 =$ _____

2 $0.96 + 1.25 =$ _____

Find each sum.

3
$$\begin{array}{r} 35.29 \\ +16.54 \\ \hline \end{array}$$

4
$$\begin{array}{r} 28.76 \\ + 1.05 \\ \hline \end{array}$$

5
$$\begin{array}{r} 63.47 \\ +59.38 \\ \hline \end{array}$$

6 $4.35 + 0.84 =$ _____

7 $15.6 + 2.03 =$ _____

8 $7.49 + 1.27 =$ _____

9 $3.02 + 8.72 =$ _____

10 $9.18 + 6.4 =$ _____

11 $11.65 + 5.39 =$ _____

Solve.

- 12 **NUTRITION** Neil is keeping track of his fat consumption for his Health class. On Wednesday, he ate 3.8 grams of fat at breakfast, 16.1 grams of fat at lunch, and 21.3 grams of fat at dinner. How many grams of fat did Neil consume on Wednesday? _____

- 13 **LANDSCAPING** Pilan used 1.7 gallons of gas to mow lawns on Saturday, and 0.6 gallons of gas to mow lawns on Sunday. How many gallons of gas did Pilan use this weekend? _____

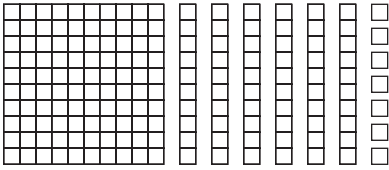
Write the vocabulary word that completes the sentence.

- 14 The first number to the right of a decimal point is the _____ place and the second number to the right is the _____ place.
- 15 A _____ is a number that represents whole numbers and fractions.
A _____ separates the whole number from the fraction.

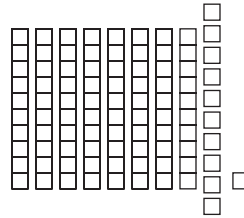
4-2 Homework Practice

Subtract using decimal models.

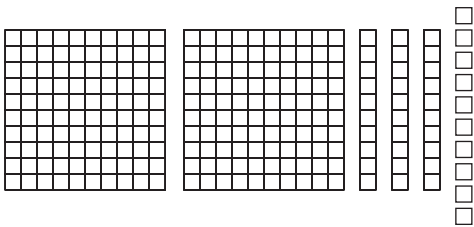
1 $1.67 - 0.52 =$ _____



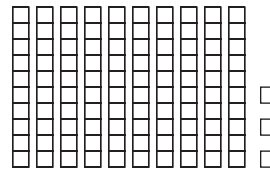
2 $0.91 - 0.43 =$ _____



3 $2.4 - 1.26 =$ _____



4 $1.03 - 0.72 =$ _____



Subtract.

5
$$\begin{array}{r} \$8.42 \\ - \$7.31 \\ \hline \end{array}$$

6
$$\begin{array}{r} 16.21 \\ - 11.47 \\ \hline \end{array}$$

7
$$\begin{array}{r} 6.54 \\ - 4.87 \\ \hline \end{array}$$

8
$$\begin{array}{r} \$12.40 \\ - \$ 3.16 \\ \hline \end{array}$$

9 $25.17 - 13.28 =$ _____

10 $8.65 - 2.14 =$ _____

11 $6.08 - 2.4 =$ _____

12 $13.47 - 5.49 =$ _____

Solve.

- 13 **GEOGRAPHY** The size of the North American continent is approximately 24.26 million square kilometers. The size of the South American continent is approximately 17.82 million square kilometers. How much larger is North America than South America?
- _____

Write the vocabulary word that completes the sentence.

- 14 Using place value to exchange equal amounts when renaming a number is called _____.

4-3 Homework Practice

Multiply.

$$\begin{array}{r} 1 \quad 0.37 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 2.17 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad \$7.03 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 0.28 \\ \times \quad 7 \\ \hline \end{array}$$

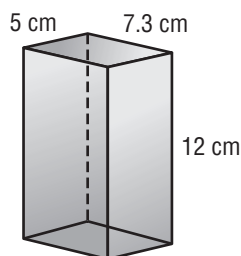
$$\begin{array}{r} 5 \quad \$26.12 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 15.08 \\ \times \quad 12 \\ \hline \end{array}$$

Solve.

- 7 **BUSINESS** Trey earns \$19.45 per hour as an auto mechanic. His brother Kyle earns \$24.80 per hour as a plumber. How much more does Kyle earn in a 40-hour week than Trey?

- 8 **GEOMETRY** The volume of a rectangular prism is found using the formula $V = \ell \times w \times h$, where V is the volume of the prism and ℓ , w , and h are the length, width, and height of the prism. What is the volume of this rectangular prism?



Write the vocabulary word that completes the sentence.

- 9 A number that divides a whole number evenly is called a _____.
- 10 A(n) _____ is a number that indicates how many times a number or expression is to be multiplied by itself.

Homework Practice

Divide.

1 $3\overline{)3.6}$

2 $4\overline{)0.12}$

3 $8\overline{)2.8}$

4 $6\overline{)80.4}$

5 $9\overline{)7.65}$

6 $5\overline{)12.75}$

7 $7\overline{)14.42}$

8 $3\overline{)4.182}$

9 $6\overline{)2.346}$

10 $4\overline{)0.0252}$

Solve.

- 11 **SPEED** Average speed can be found by dividing the number of miles driven by the time it took to drive those miles. Rajev drove 346.5 miles in 5 hours. What was his average speed? _____

- 12 **PAINTING** Vanessa wants to paint her house during spring break. She determines that she has 129.4 square yards to paint. If Vanessa wants to finish in 5 days, how many square yards does she need to paint per day? _____

Write the vocabulary word that completes the sentence.

- 13 A number that is being divided is called the _____.
- 14 The number by which the dividend is being divided is called the _____.
- 15 The answer to a division problem is called the _____.

Homework Practice**Find each product.**

1 10×66 _____

2 33×5 _____

3 48×1 _____

4 0×21 _____

Find each product. Show your work.

5
$$\begin{array}{r} 88 \\ \times 5 \\ \hline \end{array}$$

6
$$\begin{array}{r} 74 \\ \times 1 \\ \hline \end{array}$$

7
$$\begin{array}{r} 27 \\ \times 10 \\ \hline \end{array}$$

8
$$\begin{array}{r} 81 \\ \times 0 \\ \hline \end{array}$$

9
$$\begin{array}{r} 256 \\ \times 10 \\ \hline \end{array}$$

10
$$\begin{array}{r} 780 \\ \times 5 \\ \hline \end{array}$$

Solve.

- 11
- NUTRITION**
- Lucy eats 2 pieces of fresh fruit each day. How many pieces does she eat in 5 days?
-
- _____

- 12
- CARNIVAL RIDES**
- Ride tickets at the carnival come in packages of 10. If Eli and his friends purchase 14 packages, how many tickets did they buy?
-
- _____

Write the vocabulary word that completes each sentence.

- 13 The Zero Property of Multiplication states that any number times _____ is _____.
-
- 14 The _____ Property of Multiplication states that any number times 1 is equal to that number.

Consider the product 72×0 when answering the following two questions.

- 15 What is the first factor? _____ 16 What is the second factor? _____

Homework Practice**Find each product.**

1 3×8 _____

2 2×9 _____

3 6×5 _____

4 4×7 _____

Find each product. Show your work.

5
$$\begin{array}{r} 29 \\ \times 6 \\ \hline \end{array}$$

6
$$\begin{array}{r} 17 \\ \times 4 \\ \hline \end{array}$$

7
$$\begin{array}{r} 75 \\ \times 3 \\ \hline \end{array}$$

8
$$\begin{array}{r} 38 \\ \times 2 \\ \hline \end{array}$$

9
$$\begin{array}{r} 29 \\ \times 4 \\ \hline \end{array}$$

10
$$\begin{array}{r} 61 \\ \times 3 \\ \hline \end{array}$$

Solve.

- 11 **POULTRY** Harold raises chickens and sells the eggs they lay. If he packages the eggs in groups of 6 and sells 19 packages per day, how many eggs does he sell per day?

- 12 **COLLECTING** Melinda collects dolls. How many dolls are in her collection if she has 13 shelves in her room, each containing 2 dolls?

Write the vocabulary word that completes each sentence.

- 13 Since 4×30 is 120, 120 is a _____ of 4.
- 14 Multiplication is an operation on two numbers to find their _____.

Homework Practice

Use a pattern to find each product.

1 8×10

$8 \times 1 =$ _____

$8 \times 2 =$ _____

$8 \times 3 =$ _____

$8 \times 4 =$ _____

$8 \times 5 =$ _____

$8 \times 6 =$ _____

$8 \times 7 =$ _____

$8 \times 8 =$ _____

$8 \times 9 =$ _____

$8 \times 10 =$ _____

2 9×10

$9 \times 1 =$ _____

$9 \times 2 =$ _____

$9 \times 3 =$ _____

$9 \times 4 =$ _____

$9 \times 5 =$ _____

$9 \times 6 =$ _____

$9 \times 7 =$ _____

$9 \times 8 =$ _____

$9 \times 9 =$ _____

$9 \times 10 =$ _____

Use doubling to find each product.

3 8×73

Double 73: _____

Double the product: _____

Double the product again: _____

4 35×8

Double 35: _____

Double the product: _____

Double the product again: _____

Find each product.

5
$$\begin{array}{r} 71 \\ \times 9 \\ \hline \end{array}$$

6
$$\begin{array}{r} 45 \\ \times 7 \\ \hline \end{array}$$

7
$$\begin{array}{r} 82 \\ \times 8 \\ \hline \end{array}$$

Solve.

- 8 **READING** Each month Heather expects to read 6 books. If she meets her expectations, how many books does she read in 9 months? _____

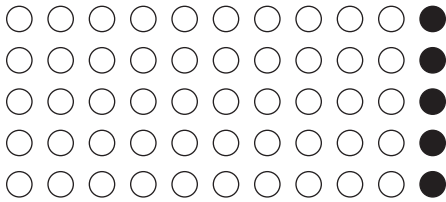
Write the vocabulary word that completes each sentence.

- 9 Since $4 \times 9 = 36$, then 36 is a _____ of 4.

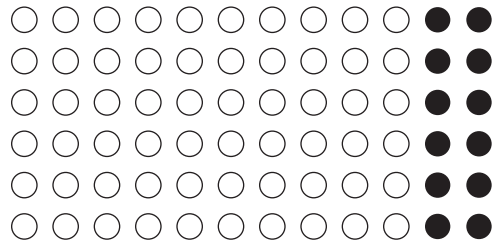
Homework Practice

Rewrite the factors in distributive form.

1 $11 \times 5 =$ _____



2 $12 \times 6 =$ _____



3 $11 \times 6 =$ _____

4 $9 \times 12 =$ _____

Find each product.

5 11×65 _____

6 33×11 _____

7 12×55 _____

8 19×12 _____

9 12×12 _____

10 11×19 _____

11 23×11 _____

12 7×12 _____

Solve.

13 FOOD Laurel owns a restaurant. She bought 15 cartons of eggs. Each carton holds a dozen eggs. How many eggs did she buy in all? _____

14 MONEY Carlton has 12 quarters. How much money does he have? _____

Write the vocabulary word that completes each sentence.

15 The _____ Property of Multiplication can be illustrated using the following example: $5 \times (10 + 2) = 5 \times 10 + 5 \times 2 = 50 + 10 = 60$.

16 A _____ is a sequence of numbers, figures, or symbols that follows a rule or design.

Homework Practice

Find the estimated product. Round each factor to the greatest place value.

1 34×77

_____ \times _____ = _____

2 58×93

_____ \times _____ = _____

Find each product. Use the traditional method.

3 $39 \times 54 =$ _____

4 $68 \times 63 =$ _____

5 $86 \times 42 =$ _____

6 $27 \times 95 =$ _____

Find each product. Use the partial products method.

7 $71 \times 37 =$ _____

8 $44 \times 43 =$ _____

9 $52 \times 19 =$ _____

10 $97 \times 61 =$ _____

Solve.

11 **HEALTH** Suki measured her heart rate. It was 74 beats per minute at rest. How many times does her heart beat at rest in 60 minutes? _____

12 **TRANSPORTATION** The Speedy Ride Company provides transportation from the train station to the airport. Their shuttle bus can hold 32 passengers. The shuttle makes 19 trips each day. How many passengers can Speedy Ride take to the airport each day? _____

Write the vocabulary word that completes the sentence.

13 In the _____ products method, the value of each digit in one factor is multiplied by the value of each digit in the other factor. The product is the sum of its partial products.

6-1 Homework Practice

Use a model to find each quotient.

1 $8 \div 1 =$ _____

2 $4 \div 4 =$ _____

3 $40 \div 10 =$ _____

4 $70 \div 10 =$ _____

Find each quotient. If the quotient is not possible, write *not possible*.

5 $10 \div 0 =$ _____

6 $6 \div 6 =$ _____

7 $12 \div 1 =$ _____

8 $11 \div 11 =$ _____

9 $90 \div 10 =$ _____

10 $8 \div 0 =$ _____

11 $110 \div 10 =$ _____

12 $2 \div 1 =$ _____

Solve.

13 **GROCERY** One brand of yogurt comes in 10-oz containers. Terrell bought 120 oz of the yogurt. How many containers did he buy? _____

14 **BASEBALL** Nadish was calculating the batting average for the players on the school baseball team. He noticed Keith had 0 hits from 10 at bats. What is Keith's batting average? _____

Write the vocabulary word that completes the sentence.

15 The _____ is a number that is being divided.

16 The answer or result of a division problem is the _____.

6-2 Homework Practice

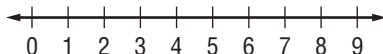
Use or draw models to find the quotient.

1 $15 \div 3 =$ _____

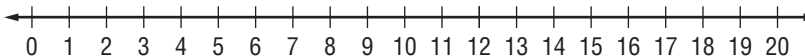
2 $24 \div 4 =$ _____

Use a number line to find the quotient.

3 $9 \div 3 =$ _____



4 $20 \div 4 =$ _____



Use a related multiplication fact to find the quotient.

5 $18 \div 2 =$ _____

6 $50 \div 5 =$ _____

7 $33 \div 3 =$ _____

8 $48 \div 4 =$ _____

Solve.

9 **GROCERY** Marjorie bought three boxes of the same kind of cookies. She spent a total of \$6.00. How much did each box of cookies cost? _____

10 **ENGINEERING** Eva designed a sprinkler system with one pump supporting 5 different lines. Each line is designed to get the same flow of water. The pump produces 25 gallons of water per minute. How many gallons of water should each line get per minute? _____

Write the vocabulary word that completes the sentence.

11 The _____ is the number being divided.

12 The answer or result of a division problem is the _____.

Homework Practice

Find each quotient. Use an array or a model.

1 $28 \div 7 =$ _____

2 $40 \div 8 =$ _____

3 $36 \div 9 =$ _____

4 $33 \div 11 =$ _____

Use a related multiplication fact to find the quotient.

5 $90 \div 10 =$ _____

6 $32 \div 8 =$ _____

7 $72 \div 12 =$ _____

8 $54 \div 9 =$ _____

Solve.

- 9 **TECHNOLOGY** Victoria downloaded a file from the Internet at a speed of 7 Mb/sec. The file size was 35 megabytes. How long did it take the file to download? _____

- 10 **LAWN CARE** Artie has a lawn care business. He charges \$8 per hour to rake leaves. How many hours did Artie spend raking leaves if he charged \$48? _____

Write the vocabulary word that completes each sentence.

- 11 The result of a division problem is called the _____.
- 12 The _____ is the number by which the dividend is being divided.

6-4 Homework Practice

Use models to find the quotient. Show the remainder.

1 $19 \div 9 =$ _____

2 $17 \div 3 =$ _____

3 $28 \div 5 =$ _____

4 $51 \div 7 =$ _____

Draw pictures to find the quotient. Show the remainder.

5 $26 \div 9 =$ _____

6 $37 \div 8 =$ _____

Solve. Tell what you will do with the remainder.

- 9 **BAKING** Nehal bakes mini muffins to sell at the local coffee shop. She puts 3 mini muffins in each bag. Today she baked 20 mini muffins. How many bags can she fill?

- 10 **ROLLER COASTER** Joe is in charge of a roller coaster at the amusement park. Each car in the roller coaster can hold 9 passengers. There are 61 people in line. How many cars does Joe need so that all the passengers can ride the roller coaster?

Write the vocabulary word that completes each sentence.

- 11 The inverse operation of multiplication is called _____.
- 12 A number that represents part of a whole or part of a set is called a(n) _____.

Homework Practice

Find each quotient. Show the remainder.

1 $350 \div 8$

2 $893 \div 4$

3 $1,547 \div 3$

4 $515 \div 6$

5 $1,208 \div 5$

6 $994 \div 6$

Find each quotient. Estimate first. Show the remainder if there is one.

7 $7,012 \div 12$

8 $11,050 \div 8$

9 $2,947 \div 11$

10 $53,485 \div 9$

11 $1,412 \div 10$

12 $2,428 \div 12$

Solve.

- 13 **SCHOOL** Ravi has one week to read a 336-page book. How many pages should Ravi plan to read each day to finish the book in 7 days?

- 14 **TRAVEL** Luisa and her 3 friends are planning a cruise. They get a package deal for \$2,620. If they split the cost equally, how much does each person owe?

Write the vocabulary word that completes the sentence.

- 15 The _____ is the number by which the dividend is being divided.

- 16 The _____ is the answer or result of a division problem.

Homework Practice

Divide. Estimate first. Show the remainder if there is one.

1 $379 \div 18$

2 $409 \div 25$

3 $765 \div 93$

4 $607 \div 51$

5 $1,811 \div 92$

6 $2,416 \div 64$

Find each quotient. Show the remainder.

7 $296 \div 47 =$ _____

8 $507 \div 38 =$ _____

9 $864 \div 72 =$ _____

10 $359 \div 36 =$ _____

11 $1,768 \div 23 =$ _____

12 $2,401 \div 52 =$ _____

13 $1,095 \div 86 =$ _____

14 $943 \div 65 =$ _____

Solve. Show the remainder if there is one.

- 15 **STUDIO SPACE** A group of 17 artists have rented a studio space that costs \$950 per month. If each artist pays an equal share of the rent, how much does each pay?

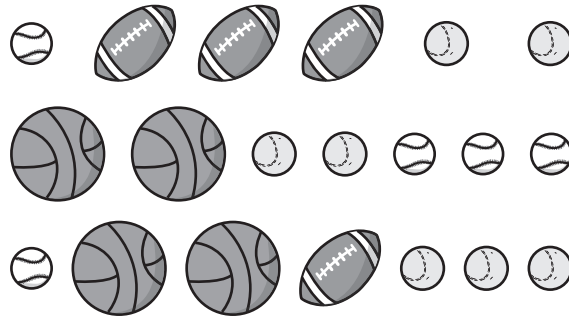
- 16 **SHELVING** The Freemans have 2,088 CDs. They bought a shelving system that holds 72 CDs on each shelf. How many shelves do the Freemans need for all their CDs?

Write the vocabulary word that completes each sentence.

- 17 _____ is an operation on two numbers in which the first number is split into the same number of equal groups as the second number.
- 18 In a long division problem like $16 \overline{)1,223}$, 16 is the _____.

Homework Practice

Use the diagram to write each ratio as a fraction in simplest form.



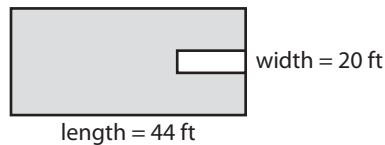
- 1 baseballs and tennis balls to the total number of balls _____
- 2 footballs and basketballs to tennis balls and baseballs _____
- 3 balls that are *not* tennis balls to the total number of balls _____
- 4 footballs to basketballs _____

Write each ratio as a fraction in simplest form.

- 5 Michele ran 3 out of 7 days this week. _____
- 6 A bowl of fruit contains 8 apples and 4 oranges. _____

Solve.

- 7 **SWIMMING** The dimensions of a rectangular swimming pool are 44 feet long by 20 feet wide. What is the ratio of the pool's width to its length?



Write the vocabulary word(s) that completes each sentence.

- 8 A _____ is a comparison of two numbers by division.
- 9 A _____ is a number that represents part of a whole or part of a set.

Homework Practice

Fill in the blanks and complete the ratio tables.

× _____ × _____ × _____

1	Numerator	7	21	35	49
	Denominator	8			

× _____ × _____ × _____

÷ _____ ÷ _____ ÷ _____

2	Numerator	196	98		28
	Denominator	84		21	

÷ _____ ÷ _____ ÷ _____

Complete each ratio table.

3	Numerator	5	15	25	35	45	55	65
	Denominator	12						

4	Numerator	252			42	28	
	Denominator	54	27	18			3

Solve.

- 5 GROCERY** Mr. Jenkins keeps track of the number of cans he can fit on the shelves in his grocery store. Complete the ratio table to compare the number of cans to the number of shelves. If he has 6 empty shelves, how many cans can he fit on them? _____

Number of cans	128		384
Number of shelves	4	8	16

Write the vocabulary word that completes each sentence.

- 6** _____ are ratios that have the same value.
- 7** A _____ is a table with columns filled with pairs of numbers that have the same ratio.
- 8** An _____ is a number used to multiply by a ratio to give an equivalent ratio.

Homework Practice

Write each rate as a fraction. Find each unit rate.

- 110 miles in 2 hours _____
- 36 points scored in 3 games _____
- 90 customers served in 4.5 hours _____
- 12 pencils in 2 packs _____

Find each unit rate. Use the unit rate to find the unknown amount.

- 12 gallons in 5 minutes; gallons in 7 minutes

- 140 heartbeats in 2 minutes; heartbeats in 5 minutes

Which product has the lower unit cost? Round to the nearest cent.

- a 6-pack of juice for \$1.89, or a 12-pack of juice for \$4.15 _____
- 2 pounds of granola for \$2.50, or 5 pounds of granola for \$6.30 _____
- a box of 30 DVDs for \$10.99, or a box of 100 DVDs for \$32.99 _____

Solve.

- TRANSPORTATION** A car travels 144 miles on 6 gallons of gasoline. Find the number of miles per gallon. _____

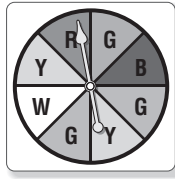
Write the vocabulary word that completes each sentence.

- A _____ is the cost of a single piece or item.
- A _____ is the comparison of two numbers by division.
- A _____ is a ratio of two measurements or amounts with different units.
- A _____ describes how many units of the first type of quantity are equal to one unit of the other type of quantity.

Homework Practice

Use the spinner to find each probability. Write the probability as a fraction in simplest form.

- 1 $P(\text{green or black})$ _____
- 2 $P(\text{not yellow})$ _____



A cooler contains 6 bottles of water, 3 bottles of tea, 7 bottles of lemonade, and 4 bottles of juice. Write each probability as a fraction in simplest form.

- 3 What is the probability of choosing one bottle from the cooler without looking and getting a bottle of water? _____
- 4 What is the probability of choosing one bottle from the cooler without looking and getting a bottle that is *not* juice? _____
- 5 What is the probability of choosing one bottle from the cooler without looking and getting a bottle of tea or a bottle of lemonade? _____

Find each probability. Write the probability as a fraction in simplest form.

- 6 12 red jelly beans, 8 black jelly beans, and 4 yellow jelly beans;
 $P(\text{red jelly bean})$ _____
- 7 4 bags of corn chips, 3 bags of pretzels, and 5 bags of popcorn;
 $P(\text{bag that is not popcorn})$ _____

Solve.

- 8 **LANGUAGE** Suppose the letters HOLLYWOOD are placed in a bag. A letter is pulled out without looking. What is the probability that the letter is an O? _____

Write the vocabulary word that completes each sentence.

- 9 An _____ is a possible result of a probability experiment.
- 10 A _____ is the comparison of two numbers by division.
- 11 An _____ is a set of outcomes.
- 12 _____ is a number between 0 and 1 that measures the likelihood of an event happening.

Homework Practice

Draw a model to show each sentence.

- 1 $2 \times 4 = 4 \times 2$. Which property did you show?

- 2 $5 + 6 = 6 + 5$. Which property did you show?

Use the Commutative Property to fill in each blank. Then check your answer.

3 $\underline{\quad} \times 4 = 4 \times 8$

$\underline{\quad} = \underline{\quad}$

4 $15 + \underline{\quad} = 75 + 15$

$\underline{\quad} = \underline{\quad}$

5 $3 + 41 = 41 + \underline{\quad}$

$\underline{\quad} = \underline{\quad}$

6 $12 \times 2 = 2 \times \underline{\quad}$

$\underline{\quad} = \underline{\quad}$

Solve.

- 7 **GARDENS** Silvia's garden has 5 rows of tomato plants with 6 plants in each row. Veronica's garden has 6 rows of tomato plants with 5 plants in each row. Compare the number of plants in each garden. Justify your answer.

- 8 **MOVIES** Carlos watched a movie that ran 120 minutes. Then he watched a movie that ran 70 minutes. Lily watched a movie that ran 70 minutes. Then she watched a movie that ran 120 minutes. Compare the time Carlos and Lily each spent watching movies. Justify your answer.

Homework Practice

Draw a model to show each equation.

1 $(3 + 2) + 6 = 3 + (2 + 6)$

Which property did you show?

2 $(6 \times 2) \times 4 = 6 \times (2 \times 4)$

Which property did you show?

Use the Commutative and Associative Properties to find each sum or product mentally.

3 $7 + 5 + 2$

$$= (\underline{\quad} + \underline{\quad}) + \underline{\quad}$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

4 $9 \times 2 \times 1$

$$= (\underline{\quad} \times \underline{\quad}) \times \underline{\quad}$$

$$= \underline{\quad} \times \underline{\quad}$$

$$= \underline{\quad}$$

Solve.

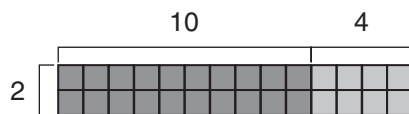
- 5 **BOOKS** Josefina read 10 books during her summer vacation. Then she read 3 books in September and 5 books in October. How many books did Josefina read in all?

- 6 Mr. Sheffield is buying supplies for his team of 8 employees. He buys 5 packs of paperclips for each employee. There are 45 paperclips in each pack. How many paperclips does he buy?

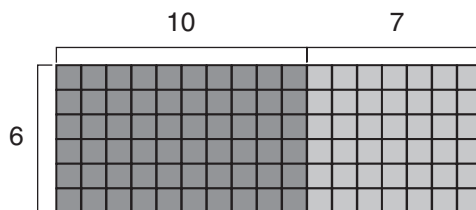
Homework Practice

Use the Distributive Property and a model to find each product.

1 $14 \times 2 = \underline{\hspace{2cm}}$



2 $17 \times 6 = \underline{\hspace{2cm}}$



Use the Distributive Property to find each product.

3 $4 \times (3 + 9) = (\underline{\hspace{1cm}} \times 3) + (\underline{\hspace{1cm}} \times 9)$ 4 $7 \times (15 - 4) = (\underline{\hspace{1cm}} \times 15) - (\underline{\hspace{1cm}} \times 4)$

$= \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

$= \underline{\hspace{1cm}} - \underline{\hspace{1cm}}$

$= \underline{\hspace{1cm}}$

$= \underline{\hspace{1cm}}$

5 $9 \times (6 + 7) = (\underline{\hspace{1cm}} \times 6) + (\underline{\hspace{1cm}} \times 7)$ 6 $8 \times (7 - 4) = (\underline{\hspace{1cm}} \times 7) - (\underline{\hspace{1cm}} \times 4)$

$= \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

$= \underline{\hspace{1cm}} - \underline{\hspace{1cm}}$

$= \underline{\hspace{1cm}}$

$= \underline{\hspace{1cm}}$

Solve.

- 7 **EARNINGS** Each week for 8 weeks April earned \$20 and spent \$5.
How much money does April have left? _____

- 8 **CEREAL** Ramiro ate 7 servings of cereal this week. Alex ate 5
servings of cereal this week. A serving of cereal is 30 grams. How
many total grams of cereal did Ramiro and Alex eat this week? _____

Homework Practice

Name the step that should be performed first in each expression.

1 $7 + 9 - 2 + 4 \times 4$

2 $3 \times 18 + (9 - 2) \div 3$

3 $(9 + 4) \times 2 - 12 \div 3$

4 $20 \div 4 \times 2 - 9 \times 2 + 5$

Find the value of each expression.

5 $13 + (9 - 1) \times 2 =$ _____

6 $15 \div (4 + 1) + 5 \times 2 =$ _____

7 $11 + 3 \times 2 + 8 - 8 \div 2 =$ _____

8 $3 + (8 \times 2) - (18 - 9) + 1 =$ _____

Solve.

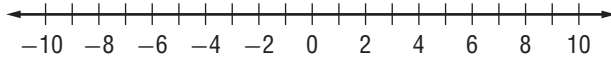
- 9 **SNACKS** Marla bought 4 boxes of granola bars. Each box contains 6 granola bars. Marla ate 3 granola bars, and she gave her brother 4 granola bars. Marla then bought 2 more boxes of granola bars. How many granola bars does Marla have now?

- 10 **BOOKS** Daniel has 65 books on a book shelf. He divides the books equally among 5 shelves. He then moves 5 books from the top shelf to the bottom shelf. He also buys 3 new books and puts them on the top shelf. How many books are on the top shelf?

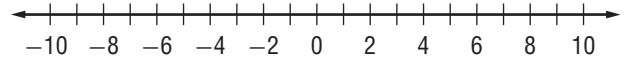
Homework Practice

Graph the opposite of each integer.

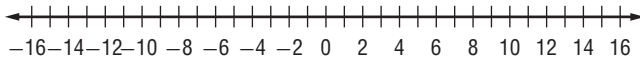
1 -6



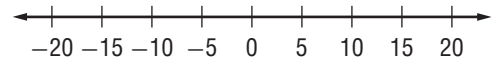
2 9



3 -12



4 15



Write the integers from least to greatest.

5 $-15, 9, -21, -16, 12$ _____

6 $45, -53, 47, -45, 54$ _____

7 $52, -86, 58, -56, -68$ _____

8 $-23, -33, -36, 29, 33$ _____

Write the integers from greatest to least.

9 $72, -65, -74, -27, 67$ _____

10 $-34, 43, 41, 46, -43$ _____

11 $-18, 24, 18, -28, -21$ _____

12 $-87, -88, 86, -89, -86$ _____

Write an integer to represent each statement.

13 A diver is 41 feet below sea level. _____

14 Your puppy gained 5 pounds. _____

15 You earned \$28 babysitting. _____

16 A company reported a loss of \$300 this quarter. _____

Solve.

17 **STOCK MARKET** The stock market dropped 271 points last quarter. What integer represents last quarter's change? _____

18 **BANKING** Sook deposited \$500 into his savings account this morning. What integer represents the change in Sook's bank account from this transaction? _____

Write the vocabulary word that completes the sentence.

19 Numbers that are greater than zero are called _____.

20 _____ are the whole numbers and their opposites.

Homework Practice

Write each algebraic expression using another way to show multiplication.

1 $9n + 3$

2 $-4 + 7 \times b$

Name the variable, constant, and operation in each expression.

3 $j - 9$ variable: _____

constant: _____

operation: _____

4 $-5 + v$ variable: _____

constant: _____

operation: _____

5 $3c$ variable: _____

constant: _____

operation: _____

6 $6x - 5$ variable: _____

constant: _____

operation: _____

7 $f \div 20$ variable: _____

constant: _____

operation: _____

8 $-15h$ variable: _____

constant: _____

operation: _____

9 $12s + 1$ variable: _____

constant: _____

operation: _____

10 $m \div 4$ variable: _____

constant: _____

operation: _____

Solve.

- 11 **LOADING** Amalia loaded 12 pallets onto her truck. Each pallet weighs w pounds. The expression $12 \times w$ represents how much weight Amalia put on her truck. What is the operation? _____

- 12 **CHEMISTRY** Rohan mixes two solutions. The first solution has a volume of 115 mL. The second solution has a volume of v mL. The expression $115 + v$ represents the final volume of the two solutions mixed together. What is the variable? _____

Write the vocabulary word that completes the sentence.

- 13 A letter or symbol used to represent an unknown quantity is called a _____.
- 14 A(n) _____ is a combination of numbers, variables, and at least one operation.

Homework Practice

For each phrase, name the operation.

- 1 the quotient of t and 3 _____
- 2 the number 2 plus q _____
- 3 5 times f _____
- 4 1 increased by m _____
- 5 the difference between k and 4 _____
- 6 the product of v and 10 _____
- 7 80 divided by r _____
- 8 a decreased by 9 _____

Translate each phrase to an expression.

- | | |
|-------------------------------------|---------------------------------|
| 9 h times 18 _____ | 10 46 plus c _____ |
| 11 53 more than w _____ | 12 a number divided by 11 _____ |
| 13 g minus 20 _____ | 14 13 less than y _____ |
| 15 67 added to a number _____ | 16 product of 3 and z _____ |
| 17 the quotient of m and 15 _____ | 18 1,000 decreased by n _____ |

Solve.

- 19 **FOOD** A mega-pizza feeds 6 students. Write an expression to find the number of mega-pizzas needed for s students. _____
- 20 **MANUFACTURING** An assembly line produces 4 electric drills every minute. Write an expression for how many drills are made in m minutes. _____

Write the vocabulary word that completes the sentence.

- 21 A symbol such as x that is used to represent a number is called a(n) _____.
- 22 A(n) _____ is a combination of numbers, variables, and at least one operation.

9-4 Homework Practice

Name the like terms in each expression.

1 $7z + 8 + 2 + 4z$

2 $3 + 4b + 5 + b$

3 $12a + 4 + 3 - 6a$

4 $5h + 10 + 3 + 2h$

Simplify each expression.

5 $2x + 8x + 5$ _____

6 $15 + 3y + y + 9$ _____

7 $12a + 6a + 3$ _____

8 $5g + 7 + 7g + 4$ _____

9 $3 + 8r + 10r + 4$ _____

10 $8n + 9 + 4n + 5$ _____

Solve.

- 11 **SALAD BAR** Two people buy salads. The first one gets 1 pound of salad plus a muffin. The second person gets 2 pounds of salad plus a roll. Use the table to the right. Write and simplify an expression showing the total cost.

Item	Cost(dollars)
Salad (per pound)	s
Roll	0.90
Biscuit	1.00
Muffin	1.20

- 12 **ALLOWANCES** Angel gets an allowance of n dollars. Jessie gets \$3 more than Angel. Seth gets an allowance of x dollars. Finley gets twice as much as Seth. Write and simplify an expression that represents the total amount of the allowances.
- _____

Write the vocabulary word that completes the sentence.

- 13 To _____ means to combine like terms.

- 14 A _____ is a quantity connected by a plus or minus sign in an algebraic expression.

Homework Practice

Evaluate each expression when $\square = 4$.

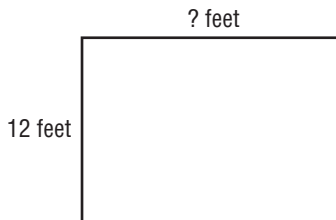
- 1 $7 + \square$ _____
- 2 $\square - 1$ _____
- 3 $6 \times \square$ _____
- 4 $5 + \square - 1$ _____
- 5 $3 + \square \times 2$ _____
- 6 $10 - 6 + \square$ _____

Evaluate each expression when $x = 8$, $y = 4$, and $z = 5$.

- 7 $10 + y$ _____
- 8 $5x - 5$ _____
- 9 $7z$ _____
- 10 $y + 5x$ _____
- 11 $12 + y - x$ _____
- 12 $x + y + z$ _____

Solve.

- 13 **ARCHITECTURE** The length of a gallery is 5 feet greater than its width. The gallery is 12 feet wide. What is the length of the gallery?



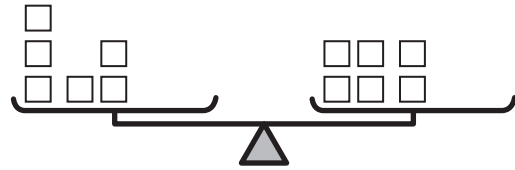
- 14 **DRIVING** The expression $220 \div v$ can be used to find how many hours it will take Oya to drive to his meeting in Chicago. The variable v represents speed in miles per hour. How long will it take Oya to get to Chicago if he drives at an average speed of 55 miles per hour?

Write the vocabulary word that completes the sentence.

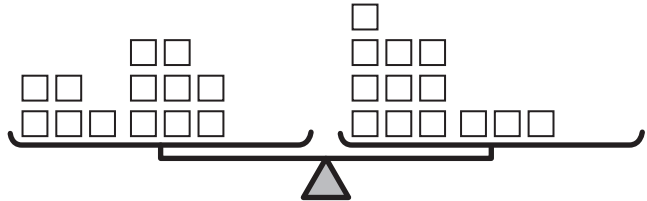
- 15 A(n) _____ is a combination of numbers, variables, and operation symbols.
- 16 To _____ an algebraic expression, substitute a value for a variable.

Homework Practice

- 1 Show that adding 4 on each side of $3 + 3 = 4 + 2$ results in a true equation.



- 2 Show that adding 6 on each side of $5 + 8 = 10 + 3$ results in a true equation.



Use a model to represent each equation.

- 3 $c + 5 = 12$

=

- 4 $m + 3 = 9$

=

- 5 $x + 6 = 15$

=

- 6 $d + 1 = 11$

=

Solve.

- 7 **BOOKS** Neo is purchasing a book. He pays the cashier \$15 and receives \$8 as change. The equation $b + 8 = 15$ could be used to find the cost of the book. Draw a model of the equation.

- 8 **KITCHEN DESIGN** Lakshmi is designing a kitchen. The kitchen needs 12 full-size cabinets. Right now Lakshmi has found space for 7 full-size cabinets. The equation $c + 7 = 12$ could be used to find how many more cabinets the kitchen needs. Draw a model of the equation.

Write the vocabulary word that completes each sentence.

- 9 An _____ is a mathematical sentence that contains an equals sign.
- 10 For an equation to be true, the expressions on either side of the equals sign must be _____.

Lesson
10-1

Homework Practice

Find the total distance traveled for each situation. Use a model.

- 1 How far will a train travel in 12 hours going at a speed of 94 mph?

- 2 How far will a bus travel in 2 hours going at a speed of 55 mph?

Find the distance. Use the distance formula.

- 3 $r = 45$ mph; $t = 3$ hours

$d =$ _____

- 4 $r = 80$ mph; $t = 5$ hours

$d =$ _____

- 5 $r = 114$ mph; $t = 6$ hours

$d =$ _____

- 6 $r = 16$ mph; $t = 8$ hours

$d =$ _____

Solve.

- 7 **BUSINESS TRIP** Mrs. Guerro is traveling with her coworkers to a business conference. The group's driver maintains a speed of 70 miles per hour for 4 hours. How far did they travel? _____

- 8 **KAYAK** Melanie went kayaking on Saturday. She traveled at a rate of about 8 mph for 2 hours. How far did she travel? _____

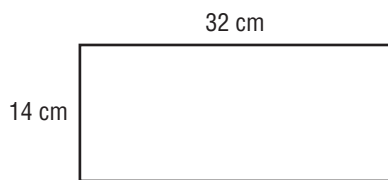
Write the vocabulary word that completes the sentence.

- 9 A(n) _____ is a mathematical sentence that contains an equals sign.
- 10 A(n) _____ shows a relationship among certain quantities.

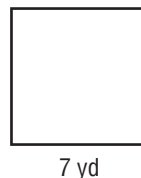
10-2 Homework Practice

Find the perimeter of each rectangle or square.

1 $P =$ _____



2 $P =$ _____



Find the perimeter of each rectangle or square.

3 $\ell = 12$ cm; $w = 18$ cm

$P =$ _____

4 $\ell = 6$ ft; $w = 8$ ft

$P =$ _____

5 $s = 8$ in.

$P =$ _____

6 $\ell = 32$ m; $w = 50$ m

$P =$ _____

Solve.

- 7 **LANDSCAPING** Mr. Dhulekar uses an edging machine around the border of a rectangular flower bed. The bed is 14 feet long and 8 feet wide. How many feet does Mr. Dhulekar cover with the edging machine? _____

- 8 **ACTING** Zoe plans to use tape to mark a rectangular area on the school stage. When Zoe's acting group performs, they will need to stay within the marked space. The acting space will be 20 yards long and 11 yards wide. How much tape does Zoe need? _____

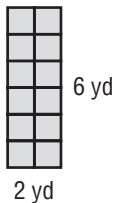
Write the vocabulary word that completes the sentence.

- 9 The distance around a closed geometric figure is called _____.
- 10 A _____ is a quadrilateral with opposite sides congruent and parallel, and all angles are right angles.

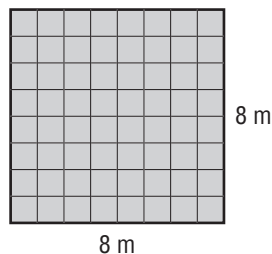
10-3 Homework Practice

Find the area of each rectangle.

1 $A =$ _____

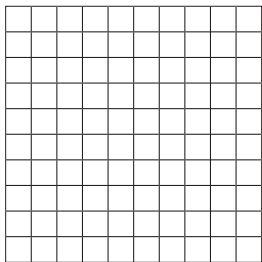


2 $A =$ _____

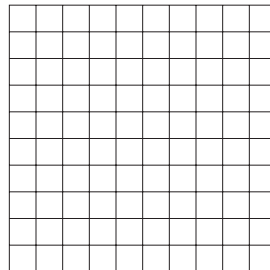


Draw a rectangle that has the given area.

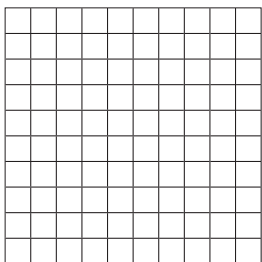
3 30 yd^2



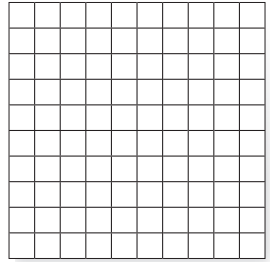
4 15 cm^2



5 8 cm^2



6 36 ft^2



Solve.

- 7 **RUGS** Lydia bought a rectangular rug for her living room. The rug measures 42 inches wide by 66 inches long. What is the area of Lydia's rug?
- _____

Write the vocabulary word that completes the sentence.

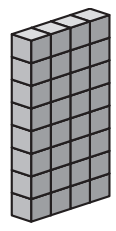
- 8 A _____ unit is a unit for measuring area.

Lesson
10-4

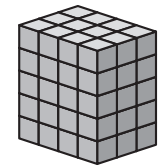
Homework Practice

Find the number of cubes in each rectangular prism.

- 1 How many cubes are in the rectangular prism? _____

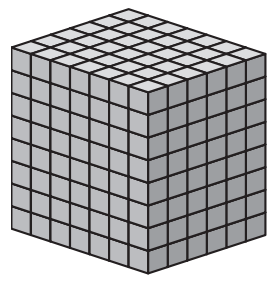


- 2 How many cubes are in the rectangular prism? _____

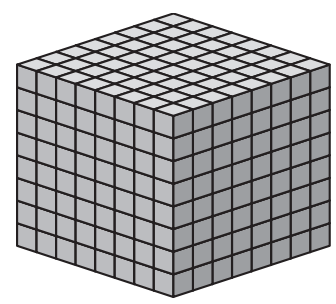


Find the volume of each rectangular prism.

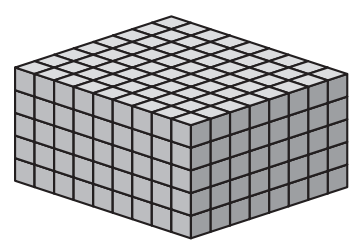
- 3 The volume of the rectangular prism is _____ cubic units



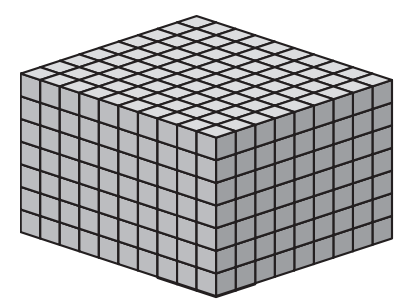
- 4 The volume of the rectangular prism is _____ cubic units



- 5 The volume of the rectangular prism is _____ cubic units



- 6 The volume of the rectangular prism is _____ cubic units



Solve.

- 7 **COTTON** A bale of cotton is measured by its width, length, and height. If the width of the bale is 20 inches, the length is 50 inches, and the height is 33 inches, what is the volume of the cotton bale? _____

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