NAME _____ DATE _____

Skills Practice

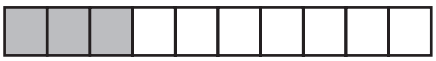
Write a fraction to represent each situation.

1. 

$$\frac{\text{number of shaded parts}}{\text{number of equal parts}} = \frac{\square}{\square}$$

2. 

$$\frac{\text{number of shaded parts}}{\text{number of equal parts}} = \frac{\square}{\square}$$

3. 

_____

4. 

_____

5. Number of happy faces in the set

$$\frac{\text{number of happy faces}}{\text{number of objects}} = \frac{\square}{\square}$$

6. Number of M's in the set

$$\frac{\text{number of M's}}{\text{number of letters}} = \frac{\square}{\square}$$

7. Number of baseball caps in the set

_____

8. Number of spoons in the set

_____

Draw a picture to model the fraction. Use equal parts of a whole.

9. $\frac{5}{9}$

10. $\frac{2}{3}$

Draw a picture to model each fraction. Use a set of objects.

11. $\frac{4}{7}$

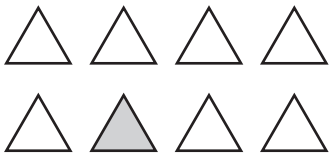
12. $\frac{3}{12}$

NAME _____ DATE _____

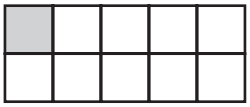
Skills Practice

Write the unit fraction that represents the shaded region in each figure.

1 _____



2 _____

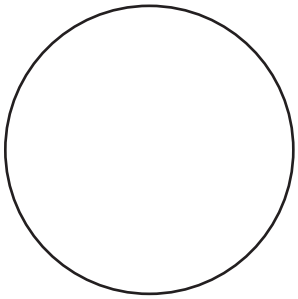


3 _____

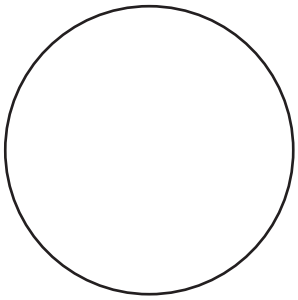
4 _____

Show where you make cuts to create each unit fraction.

5 $\frac{1}{9}$



6 $\frac{1}{6}$



7 $\frac{1}{10}$

8 $\frac{1}{12}$

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

9 $\frac{1}{4}$ ◯ $\frac{1}{8}$

10 $\frac{1}{12}$ ◯ $\frac{1}{10}$

11 $\frac{1}{14}$ ◯ $\frac{1}{9}$

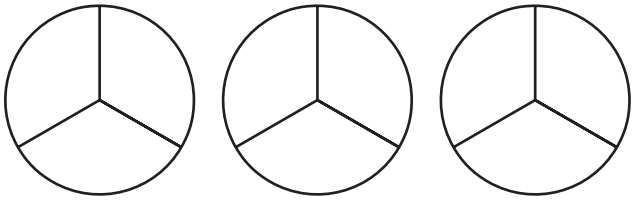
12 $\frac{1}{13}$ ◯ $\frac{1}{16}$

NAME _____ DATE _____

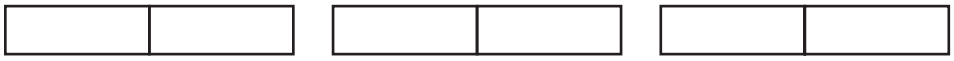
Skills Practice

1 Change $1\frac{3}{4}$ to an improper fraction using drawings. $1\frac{3}{4} =$ _____

2 Change $2\frac{1}{3}$ to an improper fraction using drawings. $2\frac{1}{3} =$ _____



3 Change $\frac{5}{2}$ to a mixed number using drawings. $\frac{5}{2} =$ _____



Write each mixed number as an improper fraction.

4 $9\frac{1}{2} =$ _____

5 $4\frac{3}{7} =$ _____

6 $1\frac{3}{8} =$ _____

7 $5\frac{3}{10} =$ _____

Write each improper fraction as a mixed number.

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

9 $\frac{17}{3} =$ _____

10 $\frac{19}{4} =$ _____

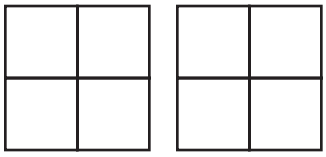
11 $\frac{35}{6} =$ _____

NAME _____ DATE _____

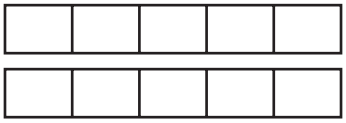
Skills Practice

Complete the models to name an equivalent fraction.

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



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



Complete to name an equivalent fraction.

3 $\frac{3}{8} = \frac{6}{\square}$

4 $\frac{2}{9} = \frac{\square}{18}$

5 $\frac{1}{7} = \frac{3}{\square}$

6 $\frac{4}{10} = \frac{16}{\square}$

7 $\frac{20}{25} = \frac{\square}{5}$

8 $\frac{5}{11} = \frac{\square}{66}$

9 $\frac{5}{12} = \frac{10}{\square}$

10 $\frac{7}{9} = \frac{28}{\square}$

11 $\frac{28}{36} = \frac{\square}{9}$

12 $\frac{8}{15} = \frac{24}{\square}$

Name two fractions equivalent to each fraction.

13 $\frac{1}{6}$ _____

14 $\frac{2}{5}$ _____

15 $\frac{3}{8}$ _____

16 $\frac{5}{7}$ _____

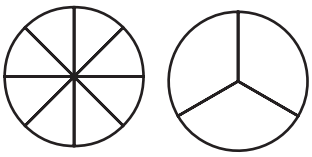
NAME _____ DATE _____

Lesson 1-5 Skills Practice

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

1. $\frac{2}{5}$ ◯ $\frac{5}{8}$

2. $\frac{4}{8}$ ◯ $\frac{1}{3}$



Use <, =, or > to compare the fractions.

3. $\frac{3}{4}$ ◯ $\frac{7}{8}$
4. $\frac{1}{3}$ ◯ $\frac{2}{9}$
5. $\frac{2}{9}$ ◯ $\frac{4}{15}$
6. $\frac{1}{2}$ ◯ $\frac{7}{11}$

Use <, =, or > to compare the fractions. Rename the fractions using a common denominator.

7. $\frac{5}{7}$ ◯ $\frac{5}{6}$ _____
8. $\frac{3}{11}$ ◯ $\frac{1}{4}$ _____
9. $\frac{5}{8}$ ◯ $\frac{4}{5}$ _____
10. $\frac{8}{10}$ ◯ $\frac{7}{9}$ _____

Order the fractions from least to greatest.

11. $\frac{3}{4}, \frac{6}{9}$ and $\frac{2}{5}$ _____
12. $\frac{5}{7}, \frac{2}{3}$ and $\frac{3}{10}$ _____
13. $\frac{1}{4}, \frac{2}{9}$ and $\frac{3}{15}$ _____
14. $\frac{5}{6}, \frac{7}{8}$ and $\frac{9}{12}$ _____

NAME _____ DATE _____

Skills Practice

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

1. $3\frac{1}{8}$ _____

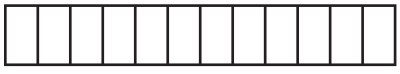
2. $\frac{4}{5}$ _____

3. $\frac{3}{20}$ _____

4. $1\frac{5}{9}$ _____

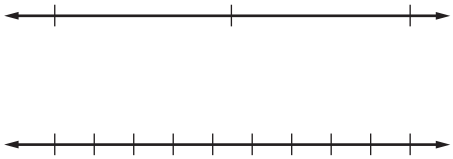
5. $2\frac{4}{7}$ _____

6. $\frac{7}{12}$ _____

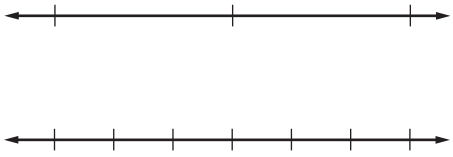


Use a number line to estimate the value of each mixed number. Round to the nearest $\frac{1}{2}$.

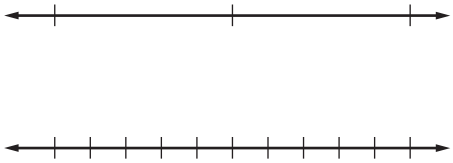
7. $1\frac{1}{9}$ _____



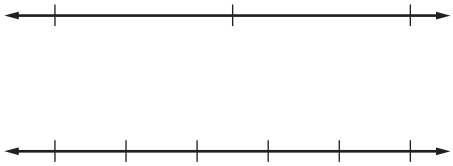
8. $4\frac{5}{6}$ _____



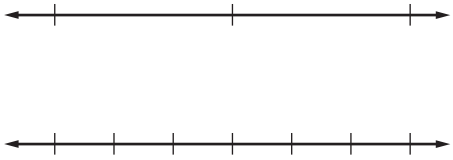
9. $6\frac{6}{10}$ _____



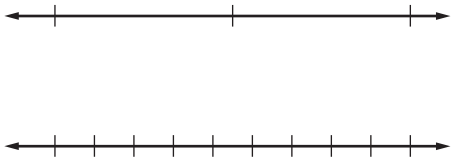
10. $3\frac{2}{5}$ _____



11. $2\frac{1}{6}$ _____



12. $10\frac{8}{9}$ _____



NAME _____ DATE _____

Lesson 2-1

Skills Practice

1 Find the GCF of 12, 15, and 24. _____

Factors of 12: _____, _____, _____, _____, _____, _____

Factors of 15: _____, _____, _____, _____

Factors of 24: _____, _____, _____, _____, _____, _____, _____, _____

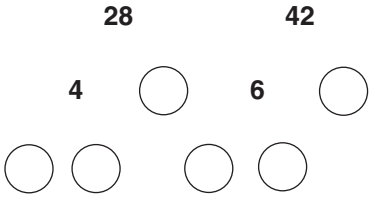
2 Find the GCF of 36, 45, and 63. _____

Factors of 36: _____, _____, _____, _____, _____, _____, _____, _____, _____

Factors of 45: _____, _____, _____, _____, _____, _____

Factors of 63: _____, _____, _____, _____, _____, _____

3 Find the GCF of 28 and 42. _____



Find the GCF of each set of numbers.

4 20 and 44 _____

5 48 and 64 _____

6 9, 18, and 30 _____

7 15, 45, and 60 _____

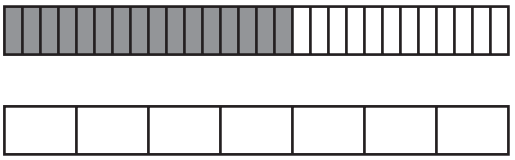
NAME _____ DATE _____

Lesson 2-2

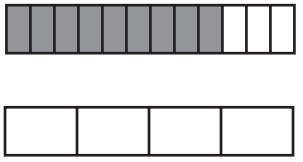
Skills Practice

Write each fraction in simplest form. Use models.

1. $\frac{16}{28} =$ _____



2. $\frac{9}{12} =$ _____



Write each fraction in simplest form. Use prime factorization.

3. $\frac{12}{24}$ _____
4. $\frac{8}{32}$ _____
5. $\frac{27}{81}$ _____
6. $\frac{10}{45}$ _____
7. $\frac{12}{28}$ _____
8. $\frac{22}{55}$ _____

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

9. $\frac{9}{15}$ _____
10. $\frac{6}{14}$ _____
11. $\frac{18}{24}$ _____
12. $\frac{50}{100}$ _____
13. $\frac{5}{25}$ _____
14. $\frac{18}{27}$ _____
15. $\frac{27}{81}$ _____
16. $\frac{85}{100}$ _____
17. $\frac{32}{48}$ _____
18. $\frac{58}{72}$ _____

NAME _____ DATE _____

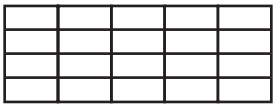
Lesson 2-3

Skills Practice

Multiply using drawings. Write each product in simplest form.

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

2. $\frac{3}{4} \times \frac{1}{5} =$ _____



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

Multiply using factoring. Write each product in simplest form.

4. $\frac{3}{12} \times \frac{6}{8} =$ _____

5. $\frac{4}{5} \times \frac{2}{9} =$ _____

Multiply. Write each product in simplest form.

6. $\frac{5}{6} \times \frac{3}{4} =$ _____

7. $\frac{2}{7} \times \frac{2}{3} =$ _____

8. $\frac{4}{8} \times \frac{2}{7} =$ _____

9. $\frac{5}{9} \times \frac{1}{2} =$ _____

10. $\frac{7}{8} \times \frac{5}{9} =$ _____

11. $\frac{5}{12} \times \frac{8}{10} =$ _____

12. $\frac{4}{5} \times \frac{4}{6} =$ _____

13. $\frac{3}{4} \times \frac{4}{7} =$ _____

14. $\frac{1}{3} \times \frac{6}{8} =$ _____

15. $\frac{1}{6} \times \frac{4}{5} =$ _____

16. $\frac{2}{3} \times \frac{7}{9} =$ _____

17. $\frac{4}{9} \times \frac{2}{5} =$ _____

18. $\frac{3}{9} \times \frac{3}{7} =$ _____

19. $\frac{4}{8} \times \frac{6}{10} =$ _____

NAME _____ DATE _____

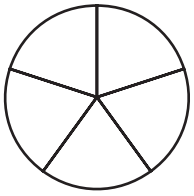
Lesson 2-4 Skills Practice

Write the reciprocal of each fraction.

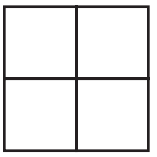
1. $\frac{4}{17} =$ _____
2. $\frac{12}{100} =$ _____
3. $\frac{5}{30} =$ _____
4. $\frac{89}{6} =$ _____

Divide using diagrams.

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



6. $\frac{3}{4} \div \frac{1}{4} =$ _____



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

8. $\frac{2}{3} \div \frac{1}{12} =$ _____

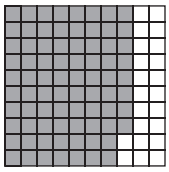
Divide. Write each quotient in simplest form.

9. $\frac{4}{5} \div \frac{1}{3} =$ _____
10. $\frac{2}{7} \div \frac{3}{6} =$ _____
11. $\frac{1}{8} \div \frac{8}{9} =$ _____
12. $\frac{1}{4} \div \frac{5}{10} =$ _____
13. $\frac{2}{6} \div \frac{4}{7} =$ _____
14. $\frac{5}{8} \div \frac{1}{3} =$ _____
15. $\frac{6}{10} \div \frac{2}{5} =$ _____
16. $\frac{3}{7} \div \frac{3}{8} =$ _____
17. $\frac{4}{5} \div \frac{2}{10} =$ _____
18. $\frac{4}{9} \div \frac{5}{7} =$ _____
19. $\frac{2}{3} \div \frac{7}{8} =$ _____
20. $\frac{1}{3} \div \frac{1}{3} =$ _____
21. $\frac{3}{4} \div \frac{1}{9} =$ _____
22. $\frac{5}{16} \div \frac{2}{3} =$ _____

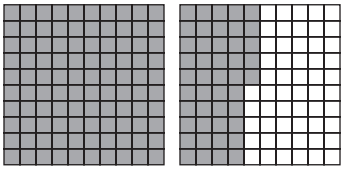
NAME _____ DATE _____

Skills Practice

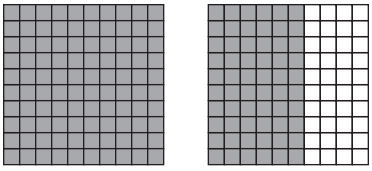
Use the model to determine the value of the decimal.

1 

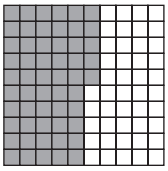
_____

2 

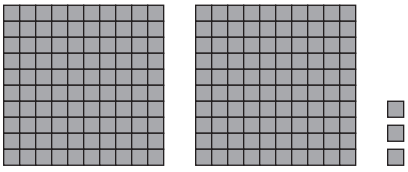
_____

3 

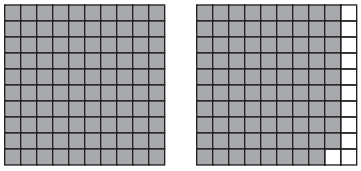
_____

4 

_____

5 

_____

6 

_____

Write each decimal in word form.

7 20.3 _____

8 0.89 _____

9 3.07 _____

10 17.4 _____

11 19.56 _____

Write each in standard form decimal.

12 twelve and sixty-five hundredths _____

13 nine tenths _____

14 seven and fourteen hundredths _____

15 eighteen and three hundredths _____

16 fifty-one hundredths _____

17 six and seven tenths _____

NAME _____ DATE _____

Lesson 3-2

Skills Practice

Write the value of the amount shown.

1 _____

2 _____

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

3 $0.85 _____

4 $21.05 _____

5 $3.27 _____

6 $11.54 _____

7 $8.92 _____

8 0.99 _____

9 $20.45 _____

10 $7.11 _____

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

11 $1.26 _____

12 $0.53 _____

13 $10.05 _____

14 $15.74 _____

15 $1.66 _____

Chapter 3

NAME _____ DATE _____

Lesson 3-3

Skills Practice

Draw a number line. Round each decimal to the greatest place.

1. 8.15 _____

2. 28.71 _____

3. 11.4 _____

4. 51.92 _____

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

5. 1.65 _____
6. 16.38 _____
7. 3.79 _____
8. 26.09 _____
9. 53.96 _____
10. 9.24 _____
11. 82.56 _____
12. 0.83 _____

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

13. 61.85 _____
14. 9.36 _____
15. 28.05 _____
16. 41.83 _____
17. 33.77 _____
18. 3.44 _____

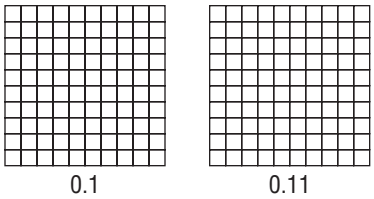
Chapter 3

NAME _____ DATE _____

Skills Practice

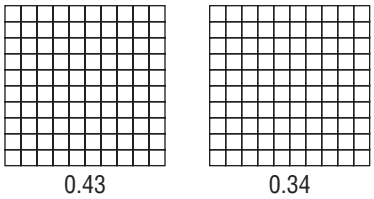
Compare each pair of decimals using models. Write <, =, or > in each circle to make a true statement.

1 0.1 and 0.11



0.1 ◯ 0.11

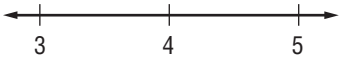
2 0.43 and 0.34



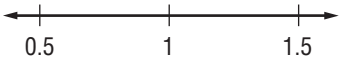
0.43 ◯ 0.34

Write the numbers in order from least to greatest. Check your answers by graphing the decimals on a number line.

3 5.04, 3.4, 4.83 _____

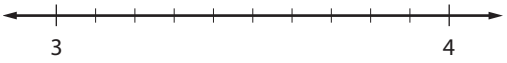


4 1.3, 1.09, 0.80 _____

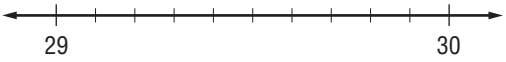


Write <, =, or > in each circle to make a true statement. Check your answer by graphing the decimals on a number line.

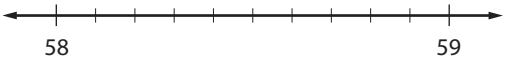
5 3.53 ◯ 3.45



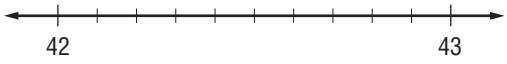
6 29.71 ◯ 29.9



7 58.6 ◯ 58.60



8 42.70 ◯ 42.075



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

9 5.50 ◯ 5.66

10 4.3 ◯ 4.23

11 8.96 ◯ 8.960

12 2.47 ◯ 2.44

13 11.56 ◯ 10.56

14 8.911 ◯ 9.0

15 12.06 ◯ 12.60

16 3.77 ◯ 3.77

NAME _____ DATE _____

Lesson 3-5

Skills Practice

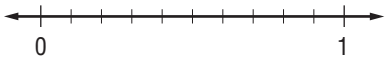
Compare each set of numbers.

1. $\frac{5}{8}$ ◯ 0.85

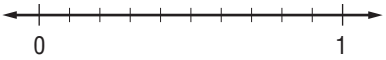
2. 0.72 ◯ $\frac{3}{4}$

Change all decimals to fractions. Then order the numbers from least to greatest. Graph the numbers on a number line.

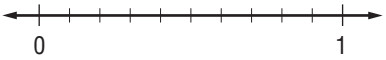
3. 0.81, 0.26, 0.45 _____



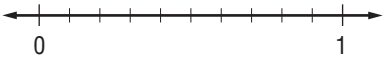
4. $\frac{1}{4}$, 0.04, 0.74 _____



5. 0.54, 0.32, 0.88 _____



6. $\frac{5}{7}$, 0.95, $\frac{1}{3}$ _____



Order the numbers from least to greatest.

7. $\frac{44}{100}$, $\frac{40}{100}$, 0.8 _____

8. 0.23, $\frac{10}{100}$, $\frac{60}{100}$ _____

9. $\frac{7}{12}$, 0.9, 0.12 _____

10. $\frac{15}{10}$, 1.39, 1.90 _____

11. 0.50, $\frac{8}{10}$, $\frac{54}{100}$ _____

12. 0.09, $\frac{1}{100}$, 0.99 _____

13. $\frac{4}{5}$, $\frac{9}{10}$, 0.45 _____

14. $\frac{2}{3}$, 0.85, $\frac{5}{8}$ _____

Chapter 3

NAME _____ DATE _____

Lesson 4-1

Skills Practice

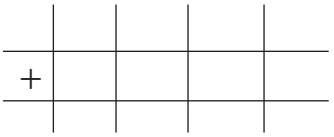
Add using decimal models. Circle any regrouping.

1. $1.23 + 0.48 =$ _____

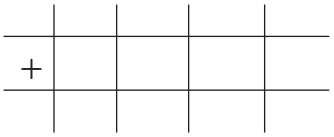
2. $0.59 + 0.76 =$ _____

Find each sum.

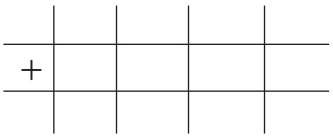
3. $8.13 + 2.07 =$ _____



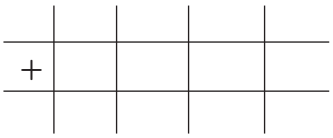
4. $3.45 + 10.82 =$ _____



5. $12.06 + 5.9 =$ _____



6. $6.31 + 9.2 =$ _____



7. $\begin{array}{r} 1.56 \\ +\ 10.28 \\ \hline \end{array}$

8. $\begin{array}{r} 8.9 \\ +\ 3.35 \\ \hline \end{array}$

9. $\begin{array}{r} 7.82 \\ +\ 6.4 \\ \hline \end{array}$

10. $\begin{array}{r} 5.07 \\ +2.5 \\ \hline \end{array}$

11. $\begin{array}{r} 12.19 \\ +\ 3.70 \\ \hline \end{array}$

12. $\begin{array}{r} 4.3 \\ +\ 9.84 \\ \hline \end{array}$

13. $12.05 + 10.34 =$ _____

14. $8.64 + 1.6 =$ _____

15. $9.35 + 2.89 =$ _____

16. $3.01 + 7.4 =$ _____

17. $4.49 + 5.29 =$ _____

18. $11.17 + 6.53 =$ _____

19. $7.20 + 8.20 =$ _____

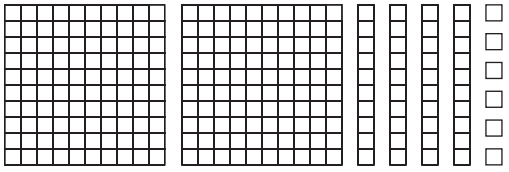
20. $8.14 + 2.39 =$ _____

NAME _____ DATE _____

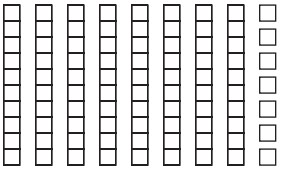
Lesson 4-2 Skills Practice

Subtract using decimal models.

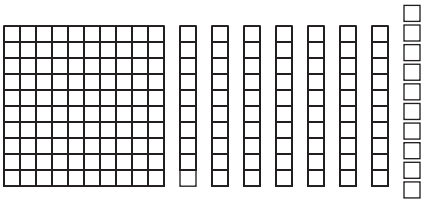
1. 2.46 − 0.3 = _____



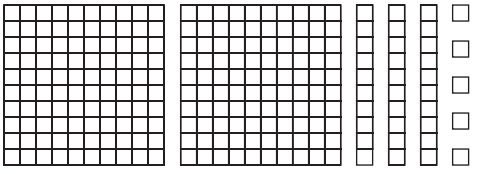
2. 0.87 − 0.56 = _____



3. 1.8 − 0.79 = _____



4. 2.35 − 1.74 = _____



Subtract.

5. 14.86 − 9.31 = _____

−				

6. 7 − 4.25 = _____

−				

7. 37.04 − 15.3 = _____

−				

8. 23.46 − 8.58 = _____

−				

9. 23.81
− 14.29

10. 4.37
− 3.62

11. $16.00
− $ 7.05

12. $80.25
− $31.04

13. 86.52
− 31.2

14. 20.01
− 9.98

15. $42.73 − $11.24 = _____

16. 52.18 − 26.39 = _____

17. 59.84 − 2.71 = _____

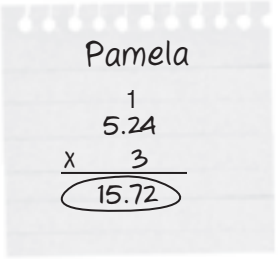
18. 8.42 − 0.47 = _____

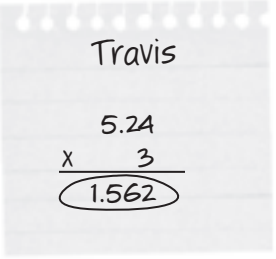
NAME _____ DATE _____

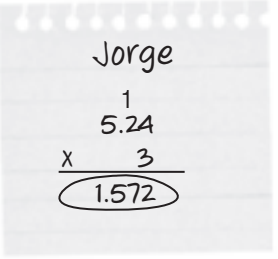
Lesson 4-3 Skills Practice

Multiply.

1 Find 5.24 × 3. Who is correct? _____







Use models to solve.

2 4.5 × 6 = _____

3 0.8 × 9 = _____

Multiply.

4 $\begin{array}{r} 4.2 \\ \times \quad 5 \\ \hline \end{array}$

5 $\begin{array}{r} 0.008 \\ \times \quad 35 \\ \hline \end{array}$

6 $\begin{array}{r} 0.04 \\ \times \quad 15 \\ \hline \end{array}$

7 $\begin{array}{r} 0.83 \\ \times \quad 3 \\ \hline \end{array}$

8 $\begin{array}{r} \$2.46 \\ \times \quad 5 \\ \hline \end{array}$

9 $\begin{array}{r} \$5.38 \\ \times \quad 7 \\ \hline \end{array}$

10 $\begin{array}{r} 4.82 \\ \times \quad 6 \\ \hline \end{array}$

11 $\begin{array}{r} 23.16 \\ \times \quad 9 \\ \hline \end{array}$

12 $\begin{array}{r} 0.75 \\ \times \quad 16 \\ \hline \end{array}$

13 $\begin{array}{r} 1.09 \\ \times \quad 8 \\ \hline \end{array}$

14 $\begin{array}{r} 0.007 \\ \times \quad 6 \\ \hline \end{array}$

15 $\begin{array}{r} \$32.45 \\ \times \quad 8 \\ \hline \end{array}$

NAME _____ DATE _____

Lesson 4-4

Skills Practice

Divide using decimal models.

1. $146.4 \div 6$

2. $49.5 \div 2$

Divide.

3. $8\overline{)7.2}$

4. $2\overline{)0.418}$

5. $4\overline{)1.7}$

6. $9\overline{)3.6}$

7. $3\overline{)42.9}$

8. $8\overline{)2.5}$

9. $7\overline{)36.75}$

10. $6\overline{)21.6}$

11. $4\overline{)5.08}$

12. $5\overline{)48.4}$

13. $2\overline{)10.07}$

14. $3\overline{)50.7}$

15. $8\overline{)0.92}$

16. $9\overline{)0.234}$

Lesson 5-1

NAME _____ DATE _____

Skills Practice

Use the Zero Property or the Identity Property of Multiplication to find each product.

1. 59×0 _____

   Which property did you use?

   _____

2. 1×13 _____

   Which property did you use?

   _____

3. $97 \times 10 = \square\square 0$

4. $482 \times 10 = 4{,}82\square$

Find each product.

5. 37×5 _____
6. 0×44 _____
7. 1×86 _____
8. 19×10 _____
9. 27×1 _____
10. 0×77 _____
11. 10×52 _____
12. 39×5 _____
13. 11×1 _____
14. 10×62 _____
15. 0×21 _____
16. 72×1 _____

Find each product. Show your work.

17. $\begin{array}{r} 29 \\ \times\ 10 \\ \hline \end{array}$
18. $\begin{array}{r} 76 \\ \times\ 10 \\ \hline \end{array}$
19. $\begin{array}{r} 52 \\ \times\ 5 \\ \hline \end{array}$
20. $\begin{array}{r} 61 \\ \times\ 5 \\ \hline \end{array}$
21. $\begin{array}{r} 88 \\ \times\ 10 \\ \hline \end{array}$
22. $\begin{array}{r} 47 \\ \times\ 10 \\ \hline \end{array}$
23. $\begin{array}{r} 53 \\ \times\ 5 \\ \hline \end{array}$
24. $\begin{array}{r} 979 \\ \times\ 1 \\ \hline \end{array}$
25. $\begin{array}{r} 509 \\ \times\ 10 \\ \hline \end{array}$
26. $\begin{array}{r} 411 \\ \times\ 5 \\ \hline \end{array}$
27. $\begin{array}{r} 640 \\ \times\ 5 \\ \hline \end{array}$
28. $\begin{array}{r} 302 \\ \times\ 10 \\ \hline \end{array}$

Chapter 5

Lesson 5-2

NAME _____ DATE _____

Skills Practice

Draw an array to model each expression. Find each product.

1. $3 \times 2 =$ _____

2. $4 \times 6 =$ _____

Find each product.

3. 2×7 _____

4. 3×5 _____

5. 4×8 _____

6. 6×9 _____

7. 2×41 _____

8. $6 \times 12 =$ _____

Find each product. Show your work.

9. $\begin{array}{r} 26 \\ \times\ 2 \\ \hline \end{array}$

10. $\begin{array}{r} 87 \\ \times\ 3 \\ \hline \end{array}$

11. $\begin{array}{r} 47 \\ \times\ 4 \\ \hline \end{array}$

12. $\begin{array}{r} 28 \\ \times\ 6 \\ \hline \end{array}$

13. $\begin{array}{r} 19 \\ \times\ 3 \\ \hline \end{array}$

14. $\begin{array}{r} 99 \\ \times\ 4 \\ \hline \end{array}$

15. $\begin{array}{r} 37 \\ \times\ 6 \\ \hline \end{array}$

16. $\begin{array}{r} 55 \\ \times\ 2 \\ \hline \end{array}$

17. $\begin{array}{r} 68 \\ \times\ 4 \\ \hline \end{array}$

18. $\begin{array}{r} 72 \\ \times\ 3 \\ \hline \end{array}$

19. $\begin{array}{r} 77 \\ \times\ 2 \\ \hline \end{array}$

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

Chapter 5

NAME _____ DATE _____

Lesson 5-3

Skills Practice

Use a pattern to find each product.

1. $9 \times 6 =$ ___

   Multiples of 9: ____, ____, ____, ____, ____, ____, ____, ____, ____, ____

2. $5 \times 7 =$ ___

   Multiples of 5: ____, ____, ____, ____, ____, ____, ____, ____, ____, ____

Use doubling to find each product.

3. 8×42

   Double 42: _____

   Double the product: _____

   Double the product again: _____

4. 26×8

   Double 26: _____

   Double the product: _____

   Double the product again: _____

5. 91×8

   Double 91: _____

   Double the product: _____

   Double the product again: _____

6. 8×63

   Double 63: _____

   Double the product: _____

   Double the product again: _____

Find each product.

9. $\begin{array}{r} 52 \\ \times\ 8 \\ \hline \end{array}$

10. $\begin{array}{r} 65 \\ \times\ 7 \\ \hline \end{array}$

11. $\begin{array}{r} 47 \\ \times\ 9 \\ \hline \end{array}$

12. $\begin{array}{r} 74 \\ \times\ 8 \\ \hline \end{array}$

13. $\begin{array}{r} 97 \\ \times\ 7 \\ \hline \end{array}$

14. $\begin{array}{r} 24 \\ \times\ 9 \\ \hline \end{array}$

15. $\begin{array}{r} 77 \\ \times\ 8 \\ \hline \end{array}$

16. $\begin{array}{r} 36 \\ \times\ 7 \\ \hline \end{array}$

17. $\begin{array}{r} 84 \\ \times\ 9 \\ \hline \end{array}$

18. $\begin{array}{r} 18 \\ \times\ 8 \\ \hline \end{array}$

19. $\begin{array}{r} 26 \\ \times\ 7 \\ \hline \end{array}$

20. $\begin{array}{r} 48 \\ \times\ 9 \\ \hline \end{array}$

Chapter 5

Lesson 5-4

NAME _____ DATE _____

Skills Practice

Rewrite the factors in distributive form.

1. 12×9 _____
2. 12×6 _____
3. 12×4 _____
4. 12×5 _____

Use a pattern to find 7 × 11. Use the table to complete the pattern.

5. $7 \times 11 =$ _____

1	× 11 =	
2	× 11 =	
3	× 11 =	
4	× 11 =	
5	× 11 =	
6	× 11 =	
7	× 11 =	

Find each product. Show your work.

6. 12×15 _____
7. 11×88 _____
8. 12×4 _____
9. 10×11 _____
10. 11×11 _____
11. 25×12 _____
12. 13×11 _____
13. 19×12 _____
14. 16×11 _____
15. 6×12 _____
16. 12×80 _____
17. 11×24 _____
18. 12×35 _____
19. 11×18 _____

Chapter 5

Lesson 5-5

NAME _____ DATE _____

Skills Practice

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

1. 82×79

   _____ × _____ = _____

2. 33×62

   _____ × _____ = _____

3. 54×28

   _____ × _____ = _____

4. 93×61

   _____ × _____ = _____

Find each product. Use the traditional method.

5. $23 \times 58 =$ _____

6. $17 \times 46 =$ _____

7. $15 \times 92 =$ _____

8. $12 \times 84 =$ _____

9. $21 \times 65 =$ _____

10. $19 \times 43 =$ _____

Find each product. Use the partial products method.

11. $42 \times 75 =$ _____

12. $37 \times 86 =$ _____

13. $94 \times 29 =$ _____

14. $28 \times 51 =$ _____

15. $63 \times 36 =$ _____

16. $59 \times 47 =$ _____

Chapter 5

NAME _____ DATE _____

Lesson 6-1

Skills Practice

Use a model to find each quotient.

1. $6 \div 1 =$ _____
2. $8 \div 8 =$ _____
3. $30 \div 10 =$ _____
4. $60 \div 10 =$ _____

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

5. $2 \div 2 =$ _____
6. $50 \div 10 =$ _____
7. $4 \div 0 =$ _____
8. $3 \div 1 =$ _____
9. $80 \div 10 =$ _____
10. $200 \div 10 =$ _____
11. $5 \div 1 =$ _____
12. $8 \div 1 =$ _____
13. $20 \div 10 =$ _____
14. $90 \div 10 =$ _____
15. $70 \div 10 =$ _____
16. $4 \div 1 =$ _____
17. $1 \div 1 =$ _____
18. $3 \div 0 =$ _____
19. $800 \div 10 =$ _____
20. $9 \div 9 =$ _____
21. $5 \div 0 =$ _____
22. $100 \div 10 =$ _____
23. $0 \div 0 =$ _____
24. $10 \div 1 =$ _____

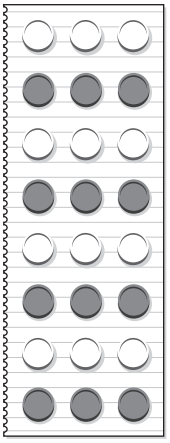
NAME _____ DATE _____

Lesson 6-2

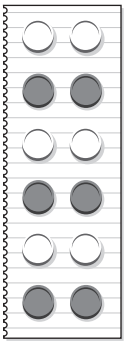
Skills Practice

Use or draw models to find the quotient.

1 $24 \div 3 =$ _____



2 $12 \div 2 =$ _____

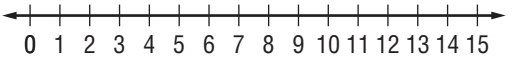


3 $18 \div 6 =$ _____

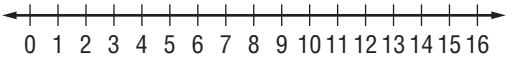
4 $21 \div 3 =$ _____

Use a number line to find the quotient.

5 $15 \div 3 =$ _____



6 $16 \div 4 =$ _____



Use a related multiplication fact to find the quotient.

7 $25 \div 5$

_____ × _____ = _____

_____ ÷ _____ = _____

8 $12 \div 2$

_____ × _____ = _____

_____ ÷ _____ = _____

9 $27 \div 3$

_____ × _____ = _____

_____ ÷ _____ = _____

10 $20 \div 4$

_____ × _____ = _____

_____ ÷ _____ = _____

NAME _____ DATE _____

Lesson 6-3

Skills Practice

Draw an array to find the quotient.

1. $45 \div 9 =$ _____

2. $21 \div 7 =$ _____

Use a related multiplication fact to find the quotient.

3. $40 \div 8$

   $8 \times$ _____ $= 40$

   $40 \div 8 =$ _____

4. $84 \div 12$

   $12 \times$ _____ $= 84$

   $84 \div 12 =$ _____

5. $66 \div 11$

   $11 \times$ _____ $= 66$

   $66 \div 11 =$ _____

6. $63 \div 9$

   $9 \times$ _____ $= 63$

   $63 \div 9 =$ _____

Draw models to find the quotient.

7. $28 \div 4 =$ _____

8. $45 \div 5 =$ _____

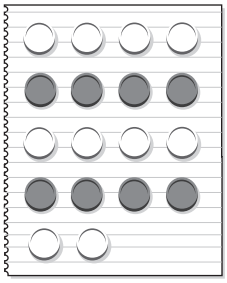
NAME _____ DATE _____

Lesson 6-4

Skills Practice

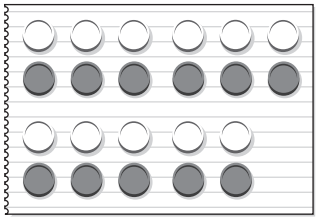
Use models to find the quotient. Show the remainder.

1 $18 \div 4 =$ _____



There are _____ groups of _____ counters and _____ counter(s) not in a group.

2 $22 \div 6 =$ _____



There are _____ groups of _____ counters and _____ counter(s) not in a group.

3 $31 \div 5 =$ _____

4 $27 \div 6 =$ _____

5 $43 \div 8 =$ _____

6 $52 \div 9 =$ _____

Draw pictures to find the quotient. Show the remainder.

7 $19 \div 8 =$ _____

8 $34 \div 8 =$ _____

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Lesson 6-5

Skills Practice

Estimate each quotient. Then divide and show the remainder.

1. 155 ÷ 2 _____
2. 359 ÷ 7 _____
3. 4,826 ÷ 4 _____
4. 1,816 ÷ 9 _____
5. 3,507 ÷ 8 _____
6. 9,112 ÷ 5 _____
7. 45,275 ÷ 10 _____
8. 7,300 ÷ 3 _____

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

9. 747 ÷ 10 _____
10. 318 ÷ 8 _____
11. 555 ÷ 11 _____
12. 385 ÷ 12 _____
13. 551 ÷ 9 _____
14. 380 ÷ 8 _____
15. 1,006 ÷ 10 _____
16. 513 ÷ 12 _____
17. 322 ÷ 11 _____
18. 872 ÷ 9 _____

NAME _____ DATE _____

Lesson 6-6

Skills Practice

Divide. Use your estimate to check the quotient.

1. 323 ÷ 44 Estimate: _____ Quotient: _____
2. 735 ÷ 81 Estimate: _____ Quotient: _____
3. 512 ÷ 13 Estimate: _____ Quotient: _____
4. 1,245 ÷ 21 Estimate: _____ Quotient: _____
5. 2,876 ÷ 78 Estimate: _____ Quotient: _____
6. 4,013 ÷ 58 Estimate: _____ Quotient: _____

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

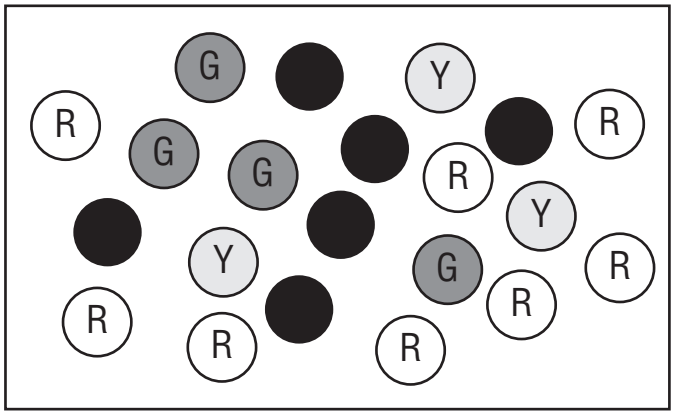
7. 425 ÷ 77 _____
8. 198 ÷ 22 _____
9. 825 ÷ 39 _____
10. 1,784 ÷ 57 _____
11. 594 ÷ 56 _____
12. 2,688 ÷ 98 _____
13. 937 ÷ 51 _____
14. 623 ÷ 86 _____
15. 842 ÷ 39 _____
16. 1,995 ÷ 57 _____
17. 2,419 ÷ 11 _____
18. 688 ÷ 9 _____

NAME _____ DATE _____

Lesson 7-1

Skills Practice

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



1. the number of yellow marbles to the number of red marbles _____

2. the number of black marbles to the number of red marbles _____

3. the number of green marbles to the number of red marbles _____

4. the number of yellow marbles to the number of black marbles _____

Write each ratio as a fraction in simplest form.

5. In a computer lab there are 15 desktop computers, 7 laptop computers, and 5 printers. Write the ratio of printers to computers. _____

6. A tray of muffins contains 6 chocolate chip muffins, 3 blueberry muffins, 4 pumpkin muffins, and 2 corn muffins. Write the ratio of corn muffins to chocolate chip muffins. _____

7. A bookshelf contains 8 mystery books, 7 science fiction books, and 4 history books. Write the ratio of books that are *not* science fiction to the total number of books on the shelf. _____

8. An herb garden contains 8 basil plants, 6 oregano plants, 5 parsley plants, and 7 thyme plants. Write the ratio of basil plants to oregano plants. _____

9. In a classroom there are 15 boys and 13 girls. Write the ratio of boys to the total number of students. _____

Chapter 7

NAME _____ DATE _____

Lesson 7-2

Skills Practice

Fill in the blanks and complete the ratio tables.

1

× _____ × _____ × _____

Numerator	1	8	12	14
Denominator	7			

× _____ × _____ × _____

2

÷ _____ ÷ _____ ÷ _____

Numerator	120	60		15
Denominator	32		8	

÷ _____ ÷ _____ ÷ _____

Complete each ratio table.

3

Numerator	480		120	75		15
Denominator	64	32			8	

4

Numerator	3	12	24	27	36	39	42
Denominator	20						

5

Numerator	5			100	120		
Denominator	18	108	288			504	540

6

Numerator	12	48	84	108			
Denominator	65				715	780	910

7

Numerator	180		60		30		2
Denominator	90	45		18		9	

Lesson 7-3

NAME _____ DATE _____

Skills Practice

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

1

_____

2

_____

3 250 envelopes in 10 minutes

_____

4 15 pages in 45 minutes

_____

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

5 125 miles for 2 hours; ☐ miles for 5 hours _____

6 64 ounces for 8 people; ☐ ounces for 30 people _____

7 250 inches in 5 seconds; ☐ inches in 12 seconds _____

8 $65 for 4 DVDs; ☐ dollars for 7 DVDs _____

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

9 a 40-oz bag of dog food for $6.79, or a 24-oz bag of dog food for $3.60 _____

10 a pound of pears for $0.99, or 5 pounds of pears for $4.59 _____

11 a 16-oz box of cereal for $4.29, or a 12-oz box of cereal for $2.99 _____

12 a pack of 6 pens for $4.75, or a pack of 15 pens for $12.75 _____

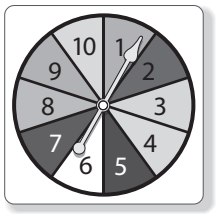
Chapter 7

NAME _____ DATE _____

Lesson 7-4

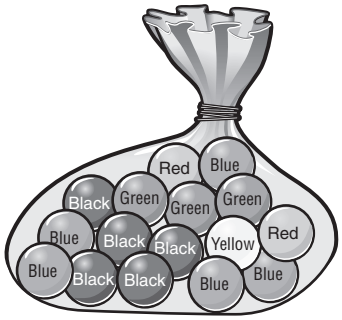
Skills Practice

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



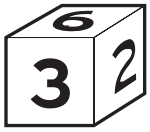
1. P(multiple of 3) _____
2. P(number greater than 8) _____

Use the bag of marbles to find each probability. Write the probability as a fraction in simplest form.



3. P(red) _____
4. P(blue or green) _____
5. P(*not* black) _____
6. P(yellow) _____

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



7. P(even number) _____
8. P(2, 3, or 6) _____
9. P(number greater than 4) _____
10. P(number less than 2) _____

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

11. March, April, May, and June; P(month with 31 days) _____
12. 4 yellow shirts, 12 blue shirts, 8 green shirts; P(green shirt) _____
13. 5 raspberries, 14 blueberries, 11 blackberries; P(raspberry or blackberry) _____
14. 10 birthday cards, 4 graduation cards, 7 sympathy cards; P(not a graduation card) _____

Chapter 7

NAME _____ DATE _____

Lesson 8-1

Skills Practice

Draw a model to show each equation.

1. $4 + 2 = 2 + 4$. Which property did you show?

_____

2. $3 \times 5 = 5 \times 3$. Which property did you show?

_____

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

3. $8 + 7 =$ ____ $+ 8$

   ____ = ____

4. $5 +$ ____ $= 4 + 5$

   ____ = ____

5. ____ $\times 9 = 9 \times 4$

   ____ = ____

6. $9 + 22 = 22 +$ ____

   ____ = ____

7. $3 \times 5 = 5 \times$ ____

   ____ = ____

8. $15 +$ ____ $= 45 + 15$

   ____ = ____

9. ____ $\times 7 = 7 \times 11$

   ____ = ____

10. $2 \times 8 =$ ____ $\times 2$

    ____ = ____

NAME _____ DATE _____

Lesson 8-2 Skills Practice

Draw a model to show each equation.

1. $(2 + 4) + 4 = 2 + (4 + 4)$

   Which property did you show?

   _____

   _____

2. $(3 \times 5) \times 2 = 3 \times (5 \times 2)$

   Which property did you show?

   _____

   _____

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

3. $4 + 5 + 8$

   $= (\_\_\_ + \_\_\_) + \_\_\_$

   $= \_\_\_ + \_\_\_$

   $= \_\_\_$

4. $7 \times 2 \times 3$

   $= (\_\_\_ \times \_\_\_) \times \_\_\_$

   $= \_\_\_ \times \_\_\_$

   $= \_\_\_$

5. $8 + 1 + 12$

   $= (\_\_\_ + \_\_\_) + \_\_\_$

   $= \_\_\_ + \_\_\_$

   $= \_\_\_$

6. $6 \times 2 \times 5$

   $= (\_\_\_ \times \_\_\_) \times \_\_\_$

   $= \_\_\_ \times \_\_\_$

   $= \_\_\_$

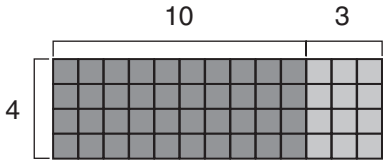
NAME _____ DATE _____

Lesson 8-3

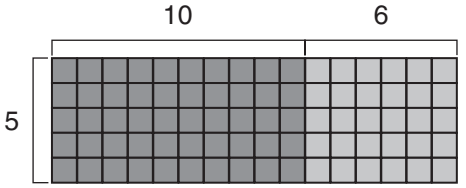
Skills Practice

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

1 $13 \times 4 =$ _____



2 $16 \times 5 =$ _____



Use the Distributive Property to find each product. Show your work.

3 $3 \times (4 + 8) = (\_\_\_ \times 4) + (\_\_\_ \times 8)$

$= \_\_\_ + \_\_\_$

$= \_\_\_$

4 $4 \times (5 + 7) = (\_\_\_ \times 5) + (\_\_\_ \times 7)$

$= \_\_\_ + \_\_\_$

$= \_\_\_$

5 $10 \times (12 + 2) = (\_\_\_ \times 12) + (\_\_\_ \times 2)$

$= \_\_\_ + \_\_\_$

$= \_\_\_$

6 $9 \times (12 - 3) = (\_\_\_ \times 12) - (\_\_\_ \times 3)$

$= \_\_\_ - \_\_\_$

$= \_\_\_$

7 $9 \times (11 - 5) = (\_\_\_ \times 11) - (\_\_\_ \times 5)$

$= \_\_\_ - \_\_\_$

$= \_\_\_$

8 $2 \times (15 + 4) = (\_\_\_ \times 15) + (\_\_\_ \times 4)$

$= \_\_\_ + \_\_\_$

$= \_\_\_$

9 $8 \times (6 + 1) = (\_\_\_ \times 6) + (\_\_\_ \times 1)$

$= \_\_\_ + \_\_\_$

$= \_\_\_$

10 $7 \times (14 - 9) = (\_\_\_ \times 14) - (\_\_\_ \times 9)$

$= \_\_\_ - \_\_\_$

$= \_\_\_$

NAME _____ DATE _____

Lesson 8-4

Skills Practice

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

1. $8 \times 6 \div (4 + 2) - 4$

   _____

2. $3 \times 6 + 9 \div 3$

   _____

3. $1 \div 5 - 3 + 2 \times 6$

   _____

4. $9 - 2 + (12 \times 6) + 9$

   _____

5. $8 + 12 \div 12 - 2 \times 6$

   _____

6. $10 \div 2 \times 5 - 1 + 4$

   _____

Find the value of each expression.

7. $4 \times (2 + 6) - 30 = 4 \times$ _____ $- 30$

   $=$ _____ $- 30$

   $=$ _____

8. $7 \times 2 + (1 \times 8) = 7 \times 2 +$ _____

   $=$ _____ $+$ _____

   $=$ _____

9. $7 - 4 \div 2 =$ _____

10. $12 \div 4 \times 4 - (3 + 2) =$ _____

11. $14 \times 2 \div (8 - 4) + 9 =$ _____

12. $10 - (2 + 4) + 2 \times 5 =$ _____

13. $6 + 2 \times 5 + (5 \times 3) =$ _____

14. $(4 \times 3) - (7 - 3) + (10 \div 2) =$ _____

15. $(12 - 9) + 21 \div 3 - 1 \times 10 =$ _____

16. $50 \div 2 - 4 + 4 \times (5 + 2) =$ _____

Lesson 9-2

NAME _____ DATE _____

Skills Practice

Write each algebraic expression using another way to show multiplication.

1. $4 \times k + 1$ _____

2. $3n - 8$ _____

3. $-5 - 12g$ _____

4. $9 + 2 \times h$ _____

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

5. $x + 4$
   variable: _____
   constant: _____
   operation: _____

6. $m - 3$
   variable: _____
   constant: _____
   operation: _____

7. $r \div 5$
   variable: _____
   constant: _____
   operation: _____

8. $7p - 12$
   variable: _____
   constant: _____
   operation: _____

9. $2t + 1$
   variable: _____
   constant: _____
   operation: _____

10. $-9b$
    variable: _____
    constant: _____
    operation: _____

11. $-4\ell + 20$
    variable: _____
    constant: _____
    operation: _____

12. $s - 14$
    variable: _____
    constant: _____
    operation: _____

13. $q \div 6$
    variable: _____
    constant: _____
    operation: _____

14. $2i$
    variable: _____
    constant: _____
    operation: _____

NAME _____ DATE _____

Lesson 9-3

Skills Practice

For each phrase, name the operation.

1. the sum of b and 8 _____
2. r divided by 10 _____
3. the difference of 22 and p _____
4. 5 times y _____
5. 100 decreased by m _____
6. the quotient of 24 and c _____

Translate each phrase to an expression.

7. nine minus a number t

   variable: _____

   constant: _____

   operation: _____

   nine (_____) minus (_____) a number t (_____)

   expression: _____

8. seven times a number n

   variable: _____

   constant: _____

   operation: _____

   seven (_____) times (_____) a number n (_____)

   expression: _____

9. 22 (_____) more than (_____) a number n (_____)

10. a number n (_____) divided by (_____) 3 (_____)

11. take away 1 from a number n _____

12. the quotient of a number n and 64 _____

Write an expression to represent each situation.

13. Lisa found 15 more shells today. _____
14. Dario earned \$6 for each hour of work. _____
15. Tyra gave 3 dolls to her little sister. _____
16. Ting ran 5 miles each day. _____
17. Odina drove 2,000 miles in equal shifts. _____
18. Rajeev bought some CDs that were \$16 each. _____

Lesson 9-4

NAME _____ DATE _____

Skills Practice

Simplify each expression by using a model. Let ■ represent *x* and ● represent *y*.

1. $3x + y + 2x$

   Draw the model.

   Combine like terms.

   Write the result:

   _____

2. $6x + 2y + 2y$

   Draw the model.

   Combine like terms.

   Write the result:

   _____

3. $x + 4y + 3x$

   _____

4. $2y + 2x + 3y$

   _____

Name the like terms in each expression.

5. $5n + 2 + 13 + n$ _____
6. $14y + 9 - 2 + y$ _____
7. $4z + 20 - 3z + 10$ _____
8. $12w + 4 - 2 + 7w$ _____

Simplify each expression.

9. $3d + 17d$ _____
10. $4t + 18 + 10t$ _____
11. $8a + 5 + 6 + 3a$ _____
12. $4 + 5u + u + 4$ _____
13. $5y + 2 + 5y + 3$ _____
14. $c + 7 + 3c + 3$ _____
15. $6k + 4 + 3k + 7$ _____
16. $2g + 6 + 2g + 9$ _____
17. $7r + 8 + 2r + 5$ _____
18. $5 + 6m + 1 + 4m + 6m + 5 - 1$ _____

Chapter 9

Lesson 9-5

NAME _____ DATE _____

Skills Practice

Evaluate each expression when $z = 3$.

1. $8 + z$ _____
2. $10 - z$ _____
3. $z \times 4$ _____
4. $15 \div z$ _____
5. $4 + z - 1$ _____
6. $6 \times z + 3$ _____

Evaluate each expression after when $x = 4$.

7. $13 + x$ _____
8. $8 - x$ _____
9. $5x$ _____
10. $16 \div x$ _____
11. $2x - 1$ _____
12. $4 + x - 2$ _____

Evaluate each expression when $a = 3$ and $b = 4$.

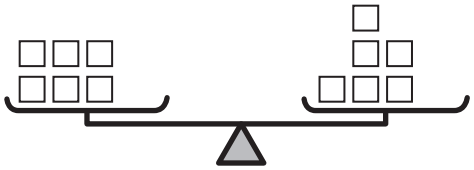
13. $10 - a$ _____
14. $3b$ _____
15. $2a + b$ _____
16. $a \times b$ _____
17. $4a - 8$ _____
18. $10b - a$ _____
19. $12 - b + 2a$ _____
20. $6 + 3b - a$ _____

Lesson 9-6

NAME _____ DATE _____

Skills Practice

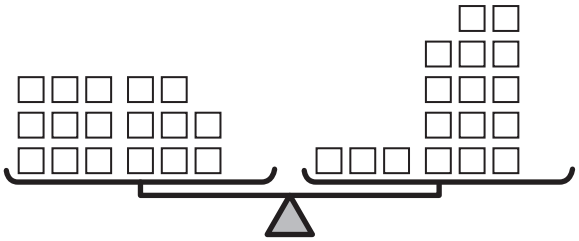
1. Show that adding 3 on each side of $2 + 4 = 1 + 5$ results in a balanced equation.



_____

_____

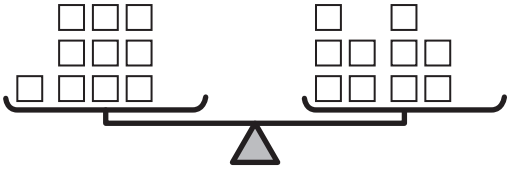
2. Show that adding 5 on each side of $9 + 8 = 3 + 14$ results in a balanced equation.



_____

_____

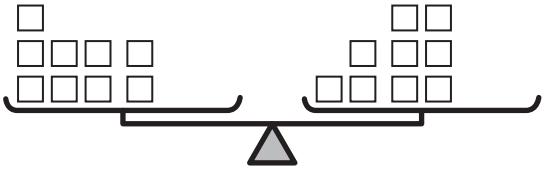
3. Show that adding 2 on each side of $1 + 9 = 5 + 5$ results in a balanced equation.



_____

_____

4. Show that adding 6 on each side of $7 + 2 = 3 + 6$ results in a balanced equation.



_____

_____

Use a model to represent each equation.

5. $b + 4 = 10$

=

6. $n + 6 = 9$

=

7. $y + 2 = 7$

=

8. $w + 3 = 11$

=

9. $x + 5 = 8$

=

10. $d + 8 = 15$

=

Chapter 9

NAME _____ DATE _____

Lesson 10-1

Skills Practice

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

1. How far will a bus travel in 7 hours going at a speed of 55 mph? _____

2. How far will a car travel in 4 hours going at a speed of 62 mph? _____

3. How far will a truck travel in 2 hours going at a speed of 40 mph? _____

4. How far will a van travel in 5 hours going at a speed of 74 mph? _____

Find the distance. Use the distance formula.

5. $r = 38$ mph; $t = 8$ hours

   $d =$ _____

6. $r = 65$ mph; $t = 6$ hours

   $d =$ _____

7. $r = 20$ mph; $t = 2$ hours

   $d =$ _____

8. $r = 8$ mph; $t = 3$ hours

   $d =$ _____

9. $r = 140$ mph; $t = 12$ hours

   $d =$ _____

10. $r = 75$ mph; $t = 4$ hours

    $d =$ _____

11. $r = 50$ mph; $t = 15$ hours

    $d =$ _____

12. $r = 7$ mph; $t = 9$ hours

    $d =$ _____

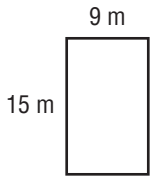
NAME _____ DATE _____

Lesson 10-2

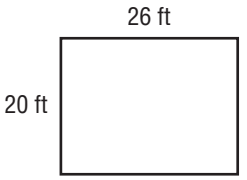
Skills Practice

Find the perimeter of each rectangle or square.

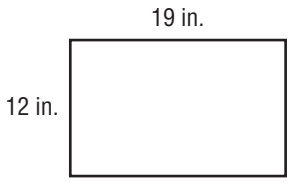
1 $P =$ _____



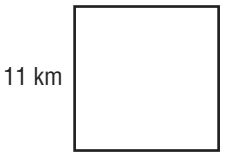
2 $P =$ _____



3 $P =$ _____



4 $P =$ _____



Find the perimeter of each rectangle or square.

5 $\ell = 2$ cm; $w = 18$ cm

$P =$ _____

6 $\ell = 5$ ft; $w = 8$ ft

$P =$ _____

7 $s = 9$ in.

$P =$ _____

8 $\ell = 32$ m; $w = 40$ m

$P =$ _____

9 $\ell = 11$ yd; $w = 17$ yd

$P =$ _____

10 $s = 16$ km

$P =$ _____

11 $s = 25$ ft

$P =$ _____

12 $\ell = 14$ in.; $w = 3$ in.

$P =$ _____

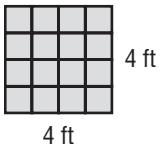
NAME _____ DATE _____

Lesson 10-3

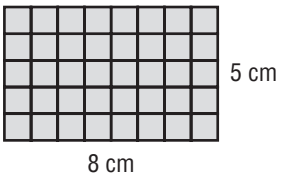
Skills Practice

Find the area of each rectangle.

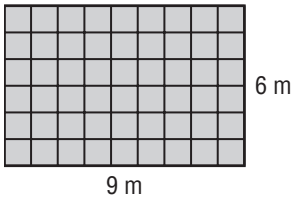
1 $A =$ _____



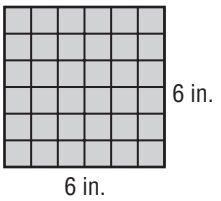
2 $A =$ _____



3 $A =$ _____

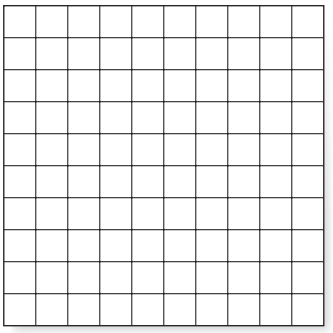


4 $A =$ _____

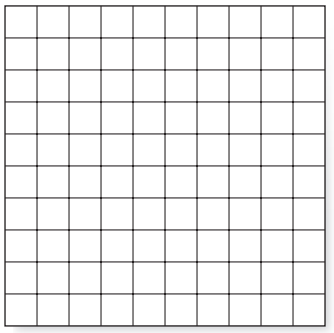


Draw a rectangle that has the given area.

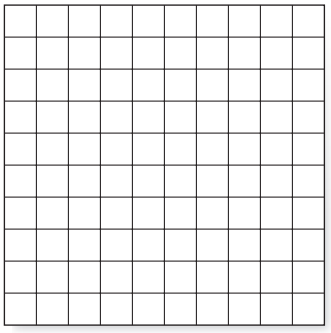
5 24 cm^2



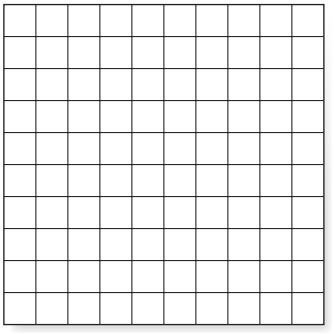
6 56 in^2



7 25 ft^2



8 42 m^2



NAME _____ DATE _____

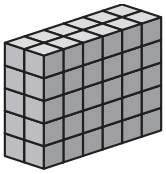
Lesson 10-4

Skills Practice

Find the number of cubes in each rectangular prism.

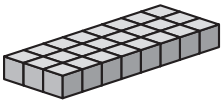
1 How many cubes are in the rectangular prism?

_____



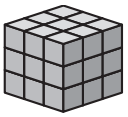
2 How many cubes are in the rectangular prism?

_____



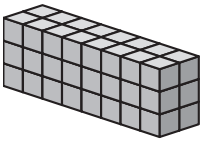
3 How many cubes are in the rectangular prism?

_____

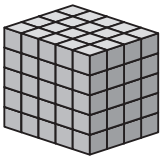


Find the volume of each rectangular prism.

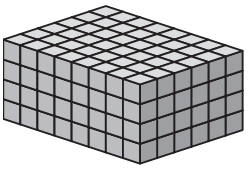
4 The volume of the rectangular prism is _____ cubic units.



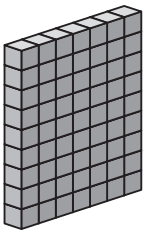
5 The volume of the rectangular prism is _____ cubic units.



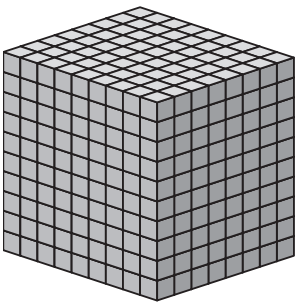
6 The volume of the rectangular prism is _____ cubic units.



7 The volume of the rectangular prism is _____ cubic units.



8 The volume of the rectangular prism is _____ cubic units.



9 The volume of the rectangular prism is _____ cubic units.