Lesson 1-1

Practice: Skills

Convert using a place-value chart.

1 3 cm = _____ mm

1000			1	0.1	0.01	0.001
thousands			ones	tenths	hundredths	thousandths
			●			
kilo (km)			meters (m)	deci (dm)	centi (cm)	milli (mm)

2 29 mm = _____ m

1000			1	0.1	0.01	0.001
thousands			ones	tenths	hundredths	thousandths
			●			
kilo (km)			meters (m)	deci (dm)	centi (cm)	milli (mm)

Convert.

3 808 dm = _____ m

1 dm = _____ m

Multiply or divide? _____

808 _____ 10 = _____

808 dm = _____ m

4 2,000 cm = _____ mm

1 cm = _____ mm

Multiply or divide? _____

2,000 _____ 10 = _____

2,000 cm = _____ mm

5 0.09 cm = _____ dm

6 360 m = _____ km

7 97.2 m = _____ mm

8 12 mm = _____ m

9 0.012 dm = _____ cm

10 5.1 km = _____ dm

11 10,000 m = _____ cm

12 5 dm = _____ km

13 47.8 cm = _____ km

14 0.071 mm = _____ dm

15 0.493 m = _____ dm

16 0.64 km = _____ mm

Math Triumphs

Lesson 1-2 **Practice: Skills**

Convert using a table.

1 84 in. = ___ ft

feet							
inches	12	24	36	48	60	72	84

2 5 mi = _____ ft

miles					
feet	5,280	10,560	15,840	21,120	26,400

Convert.

3 3 mi = ___ ft

1 mi = _____ ft

Multiply or divide? _____

3 ___ 5280 = _____

3 mi = _____ ft

4 72 in. = ___ yd

1 yd = ___ in.

Multiply or divide? _____

72 ___ 36 = ___

72 in. = ___ yd

5 1 mi = _____ in.

6 6 mi = _____ yd

7 180 in. = _____ yd

8 11 ft = _____ in.

9 6 yd = _____ in.

10 108 in. = _____ ft

11 17,600 yd = _____ mi

12 3 mi = _____ yd

13 52,800 ft = _____ mi

14 15 yd = _____ ft

15 31,680 in. = _____ mi

16 3 yd = _____ in.

17 27 ft = _____ yd

18 126,720 in. = _____ mi

19 2.5 mi = _____ in.

20 3,520 yd = _____ mi

Lesson
1-3 **Practice: Skills**

Convert using a place-value chart.

1 1,261 mL = _____ L

2 5.98 kg = _____ g

1000				0.001
thousands		ones		thousandths
		●		
kilo (kL)		liter (L)		milli (mL)

1000		1		0.001
thousands		ones		thousandths
		●		
kilo (kg)		gram (g)		milli (mg)

Convert.

3 2.9 g = _____ mg

1 g = _____ mg

Multiply or divide? _____

2.9 _____ 1000 = _____

2.9 g = _____ mg

4 106 mL = _____ kL

1 kL = _____ mL

Multiply or divide? _____

106 _____ 1,000,000 = _____

106 mL = _____ kL

5 6,300 kg = _____ g

6 465 mg = _____ g

7 0.019 kL = _____ mL

8 93,500 L = _____ kL

9 1.04 g = _____ kg

10 200,010 mg = _____ kg

11 25 mL = _____ L

12 0.0006 kL = _____ L

13 0.000079 kg = _____ mg

14 8,390,000 mL = _____ kL

Lesson
1-4 **Practice: Skills**

Convert using a table.

1 8 c = _____ fl oz

cups								
fluid ounces	8	16	24	32	40	48	56	64

2 5 tons = _____ lb

tons					
pounds	2,000	4,000	6,000	8,000	10,000

Convert.

3 80 fl oz = _____ c
1 c = _____ fl oz
Multiply or divide? _____
80 _____ 8 = _____
80 fl oz = _____ c

4 7 gal = _____ qt
1 gal = _____ qt
Multiply or divide? _____
7 _____ 4 = _____
7 gal = _____ qt

5 96 oz = _____ lb

6 13 pt = _____ c

7 3 qt = _____ fl oz

8 16,000 oz = _____ T

9 3 pt = _____ fl oz

10 5 gal = _____ pt

11 9 qt = _____ pt

12 512 fl oz = _____ gal

13 32 c = _____ gal

12 11 qt = _____ c

15 5 gal = _____ fl oz

16 6 c = _____ fl oz

17 256 fl oz = _____ pt

18 1 T = _____ oz

19 42 c = _____ pt

20 16 pt = _____ gal

Math Triumphs

Lesson 1-5 Practice: Skills

Convert using a table.

1 360 s = _____ min

minutes						
seconds	60	120	180	240	300	360

2 8 wk = _____ days

weeks							
days	7	14	21	28	35	42	49	56

Convert.

3 3 d = _____ h
1 d = _____ h
Multiply or divide? _____
3 _____ 24 = _____
3 d = _____ h

4 100,800 min = _____ wk
1 wk = _____ min
Multiply or divide? _____
100,800 _____ 10,080 = _____
100,800 min = _____ wk

5 240 min = _____ h

6 149°F = _____ °C

7 7 wk = _____ d

8 8 min = _____ s

9 672 h = _____ wk

10 3 h = _____ s

11 120°C = _____ °F

12 2 d = _____ s

13 1.5 wk = _____ s

14 8,640 min = _____ d

15 55°C = _____ °F

16 300 s = _____ min

17 30,240 min = _____ wk

18 212°F = _____ °C

19 77 d = _____ wk

20 2 d = _____ h

Lesson 1-6 Practice: Skills

Write *yes* or *no* to tell if each is a unit rate.

1 1 mile in 10 minutes _____

2 20 pages in one day _____

3 5 houses in 1 year _____

4 37 books in 4 boxes _____

Who is correct?

5 Samuel can run 4 miles in 25 minutes. Who is correct in solving for his unit rate? _____

$25 \div 4 = 6.25$ The unit rate is 6.25 miles/minute.	$4 \div 25 = 0.16$ The unit rate is 0.16 miles/minute.	$4 \times 25 = 100$ The unit rate is 100 miles/minute.
Bella	Alvaro	Tia

Find the unit rate.

6 48 nails in 4 walls _____

7 125 students in 5 classrooms _____

8 12 movie tickets for 12 friends _____

9 100 miles on 5 gallons _____

10 300 pages in 6 notebooks _____

11 72 pencils in 9 boxes _____

12 49 movies in 7 theaters _____

13 104 playing cards in 2 decks _____

14 $24 in 4 hours _____

15 18 firemen in 3 trucks _____

16 38 riders in 19 bumper cars _____

17 81 transactions on 9 cash registers _____

Lesson 2-1 **Practice: Skills**

Draw a line segment of each length.

1 8 centimeters

0 1 2 3 4 5 6 7 8 9
cm

2 42 millimeters

0 1 2 3 4 5 6 7 8 9
cm

3 $2\frac{1}{4}$ inches

0   1   2   3
in.
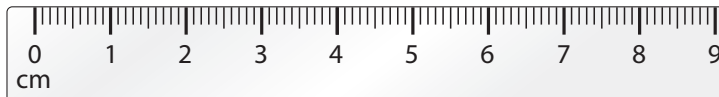
Measure the length of each line segment to the nearest $\frac{1}{2}$-inch.

4

0 1 2 3 4 5 6
in.

The line segment is _____ inches long.

5

0 1 2 3 4 5 6
in.
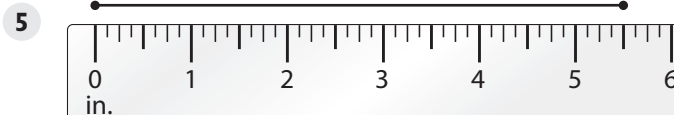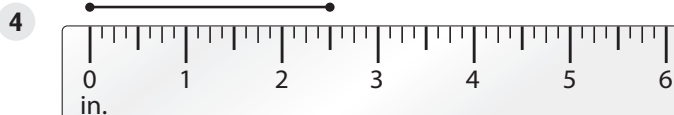
The line segment is _____ inches long.

Measure the length of each line segment to the nearest centimeter.

6

0 1 2 3 4 5 6 7 8 9
cm

The line segment is
_____ centimeters long.

7

0 1 2 3 4 5 6 7 8 9
cm
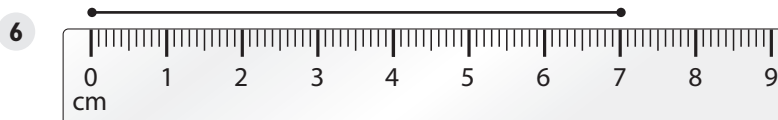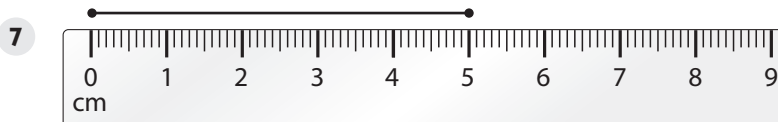
The line segment is
_____ centimeters long.

Find the length of each segment.

8

9

10

11

_____   _____   _____   _____

Math Triumphs
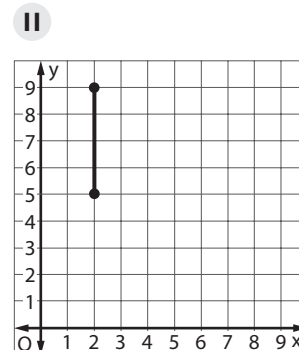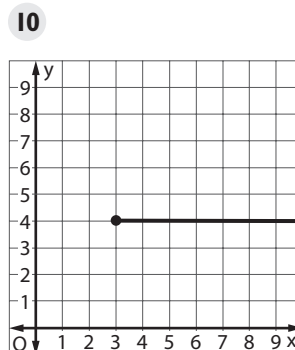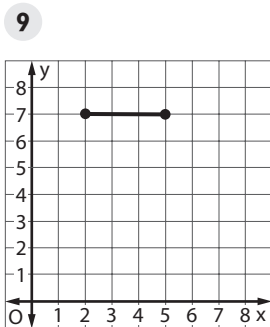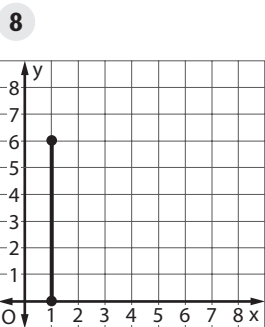
Lesson 2-2 **Practice: Skills**

Find the perimeter of each polygon.

1

6 in.

12 in.

The perimeter of the rectangle is _____ inches.

4

3 in.
3 in.   3 in.
3 in.   3 in.
3 in.
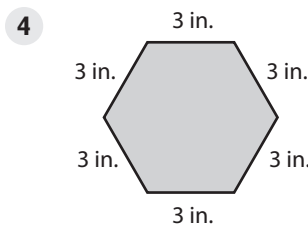
The perimeter of the polygon is _____ inches.

2

7 cm

7 cm
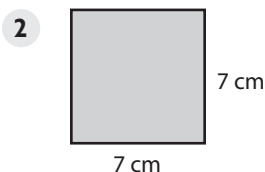
The perimeter of the square is _____ centimeters.

5

10 mm

4 mm   5 mm

13 mm

The perimeter of the polygon is _____ millimeters.

3

9 mm   9 mm

5 mm
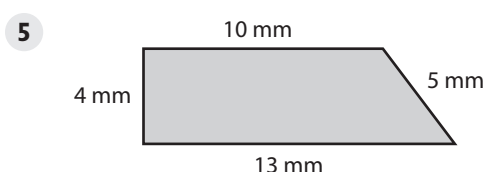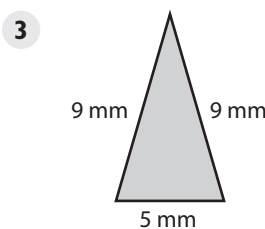
The perimeter of the triangle is _____ millimeters.

6

5 cm   5 cm

15 cm   15 cm

12 cm
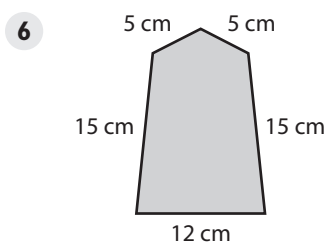
The perimeter of the polygon is _____ centimeters.

Measure the sides of each polygon. Find the perimeter.

7
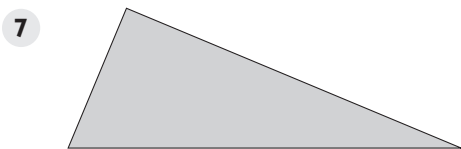
The perimeter of the triangle is _____ centimeters.
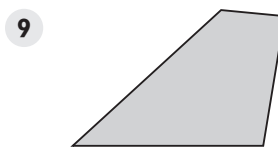
9

The perimeter of the polygon is _____ millimeters.

8

The perimeter of the polygon is _____ centimeters.

10
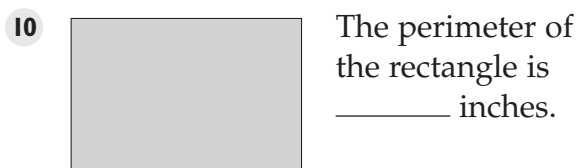
The perimeter of the rectangle is _____ inches.

Draw a polygon that has the given perimeter.

11 Draw a figure that has a perimeter of 24 centimeters.

12 Draw a figure that has a perimeter of 10 inches.

Math Triumphs

Lesson 2-3

Practice: Skills

Draw a figure that has the area given.

1 20 square units
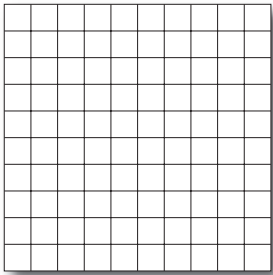
2 64 square units
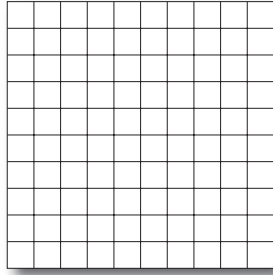
3 40 square units
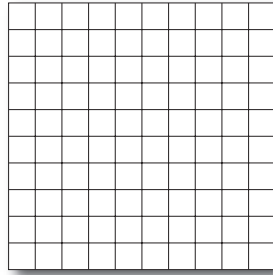
4 12 square units
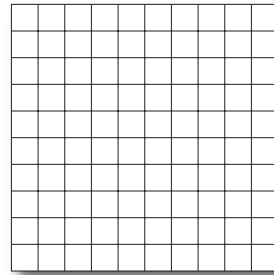
Estimate the area of each figure.

5
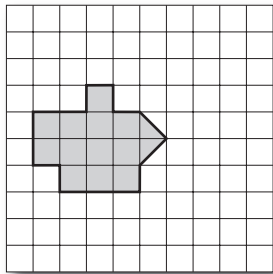
The area of the figure is about

_____ square units.

6
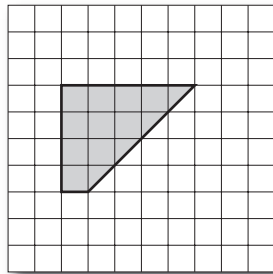
The area of the figure is about

_____ square units.

7
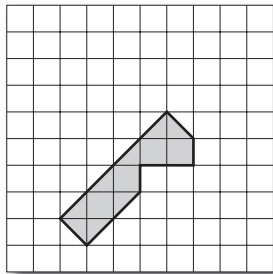
The area of the figure is about

_____ square units.

8
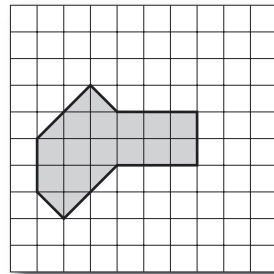
The area of the figure is about

_____ square units.

Find the area of the figure.

9
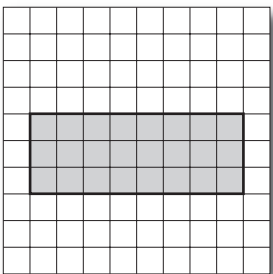
The area of the rectangle is

_____ square units.

10
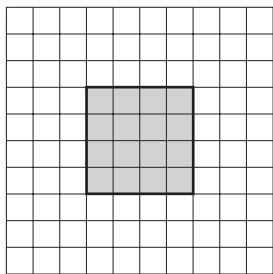
The area of the square is _____ square units.

11
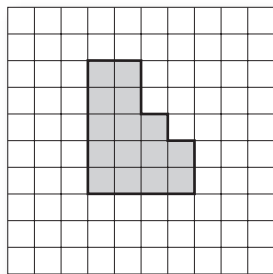
The area of the figure is _____ square units.

12

The area of the rectangle is

_____ square units.

Math Triumphs
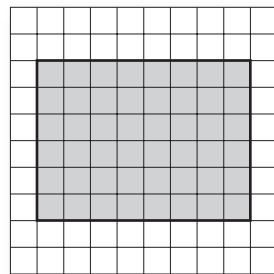
Lesson
2-4 **Practice: Skills**

Count the number of cubes in each rectangular prism.

1
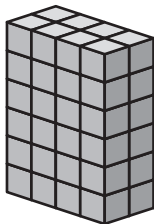
There are _____ cubes in the
rectangular prism.

2
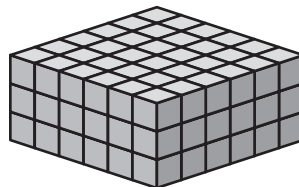
There are _____ cubes in the
rectangular prism.

Find the volume of each rectangular prism.

3
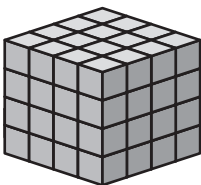
There are _____ cubes along the length of the cube.

There are _____ cubes along the width of the cube.

There are _____ cubes along the height of the cube.

The volume of the cube is _____ cubic units.

4
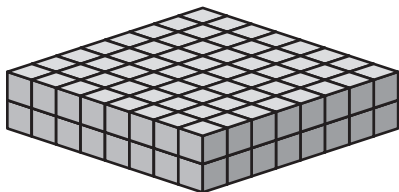
There are _____ cubes along the length of the rectangular prism.

There are _____ cubes along the width of the rectangular prism.

There are _____ cubes along the height of the rectangular prism.

The volume of the rectangular prism is _____ cubic units.

5

There are _____ cubes along the length of the rectangular prism.

There are _____ cubes along the width of the rectangular prism.

There are _____ cubes along the height of the rectangular prism.

The volume of the rectangular prism is _____ cubic units.

Math Triumphs
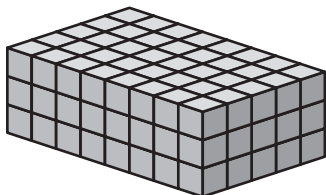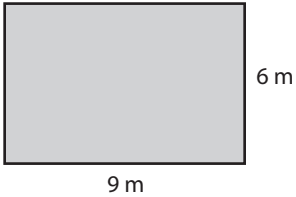
Lesson
3-1 **Practice: Skills**

Find the area.

1. Find the area of a rectangle with a length of 12 cm. and a width of 5 cm. _____.

2. Find the area of a rectangle with a length of 5 cm. and a width of 7 cm. _____.

3.

6 m

9 m

The area of the rectangle is _____.

4. Find the area of a square with side lengths of 7 feet. _____.

5. Find the area of a square with side lengths of 9 yards. _____.

Draw a rectangle for each area given.

6. 24 cm²

7. 56 in.²

8. 25 ft²

9. 42 m²

Chapter 3

Math Triumphs

**Lesson
3-2** **Practice: Skills**
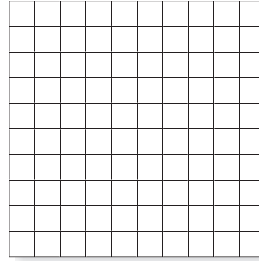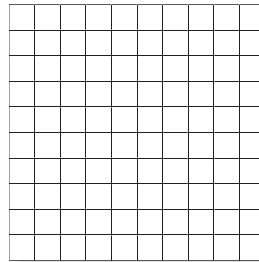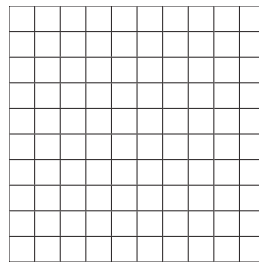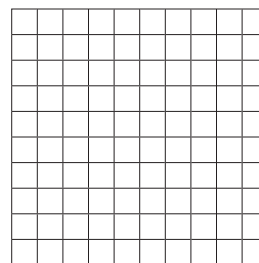
Find the area of each parallelogram.

1
5 cm

8 cm

The base of the parallelogram is

_____ and the height is

_____.
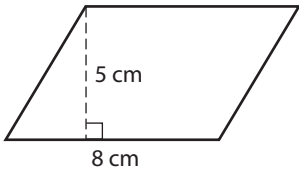
The area of the parallelogram is

_____.

2
3 yd

7 yd

The base of the parallelogram is

_____ and the height is

_____.
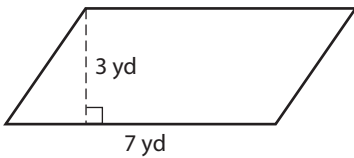
The area of the parallelogram is

_____.

3 If a parallelogram has a base of 6 in and a
   height of 10 in, then the area of the

   parallelogram is _____.

4 If a parallelogram has a base of 12 m and a
   height of 3 m, then the area of the

   parallelogram is _____.

Draw a parallelogram that has the are given.

5 15 cm²

6 32 in.²

7 7 ft²

8 18 m²

Chapter 3

Math Triumphs

Lesson 3-3
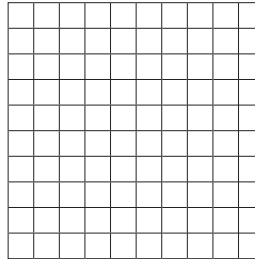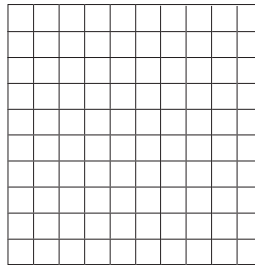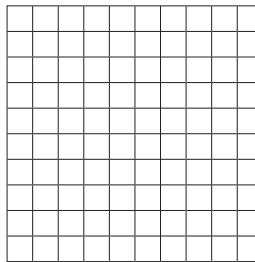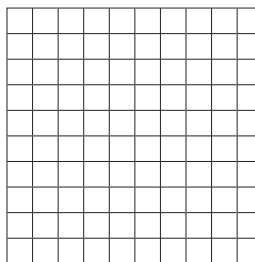
Practice: Skills

Find the area of each triangle.

1 A triangle with a base of 7 cm and a height of 4 cm.

The area of the triangle is _____.

2 A triangle with a base of 4 in and a height of 4 in.

The area of the triangle is _____.
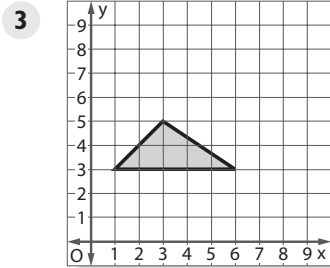
3

The base of the triangle measures

_____.

The height of the triangle measures

_____.

The area of the triangle is _____.

4

The base of the triangle measures

_____.

The height of the triangle measures

_____.
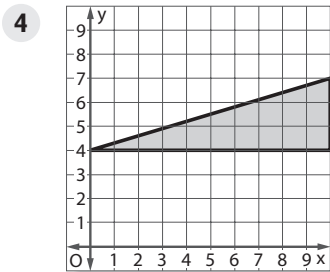
The area of the triangle is _____.

5 The area of a triangle with a base of 10 ft and a height of 6 ft.

The area of the triangle is _____.

Draw a triangle that has the area given.

6 16 in.^{2}

7 24 m^2

Chapter 3
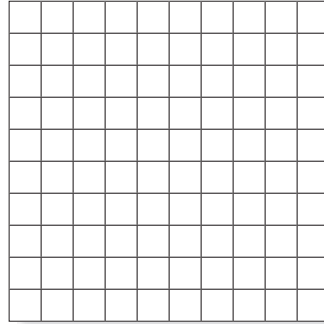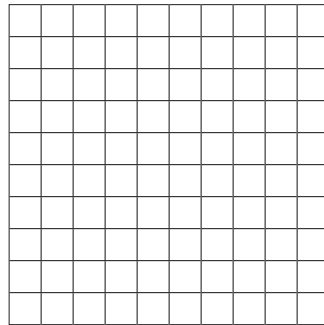
Lesson
3-4 Practice: Skills

Draw a net for a rectangular prism with the dimensions given.

1 $2 \times 4 \times 8$
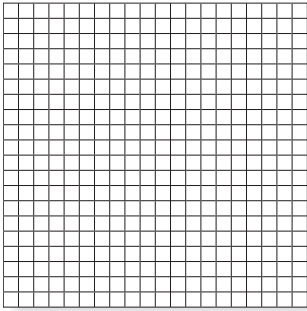
2 $5 \times 5 \times 10$
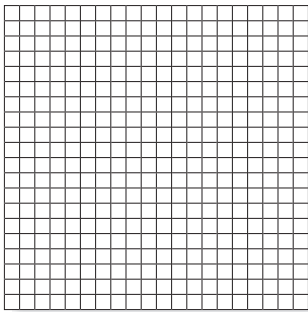
3 $9 \times 2 \times 4$
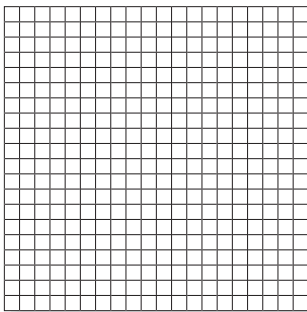
4 $3 \times 4 \times 5$
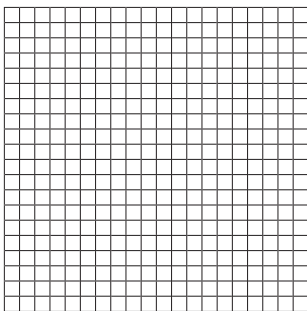
Find the surface area of each rectangular prism.

5

The surface area of the rectangular prism is _____ square units.

6

5 yd

5 yd
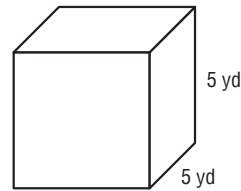
The surface area of the cube is _____ square units.

7

The surface area of the rectangular prism is _____ square units.

8

The surface area of the rectangular prism is _____ square units.

Chapter 3

Math Triumphs
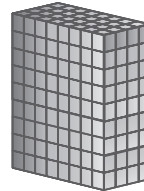
Lesson
3-5 **Practice: Skills**

Find the number of cubes in each rectangular prism.

1
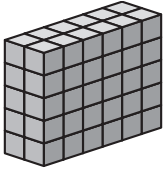
How many cubes are in this rectangular prism? _____

2
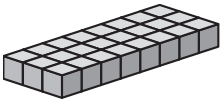
How many cubes are in this rectangular prism? _____

3

How many cubes are in this rectangular prism? _____

Find the volume of each rectangular prism.

4
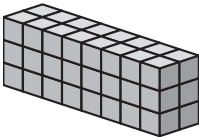
The length of the rectangular prism is

_____ units.

The width of the rectangular prism is

_____ units.

The height of the rectangular prism is

_____ units.

The volume of the rectangular prism is

_____ cubic units.

5
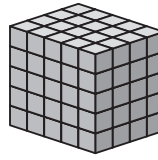
The length of the rectangular prism is

_____ units.

The width of the rectangular prism is

_____ units.

The height of the rectangular prism is

_____ units.

The volume of the rectangular prism is

_____ cubic units.

6
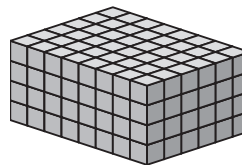
The volume of the rectangular prism is

_____ cubic units.

7
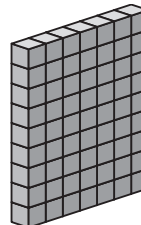
The volume of the rectangular prism is

_____ cubic units.

8

The volume of the rectangular prism is

_____ cubic units.

Chapter 3
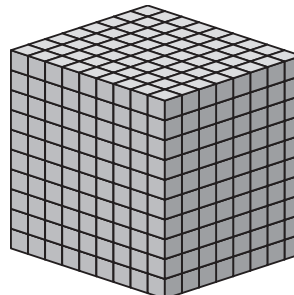
Lesson
4-1 **Practice: Skills**

Draw each figure.

1 line segment *PQ*

4 parallel lines *CD* and *XY*

2 ray *AB*

5 perpendicular lines *JK* and *WV*

3 point *Z*

Name each line. Identify the relationships.

6
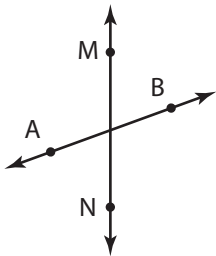
The lines are _____ and _____.

The lines are _____ lines; $\overline{AB}$ _____ $\overline{MN}$.

7
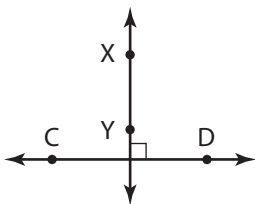
The lines are _____ and _____.

The lines $\overline{XY}$ and $\overline{CD}$ are _____ lines; $\overline{XY}$ _____ $\overline{CD}$.

8
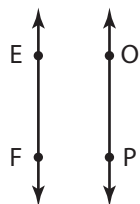
The lines are _____ and _____.

The lines $\overline{EF}$ and $\overline{OP}$ are _____ lines. $\overline{EF}$ _____ $\overline{OP}$.

Chapter 4

Lesson
4-2 Practice: Skills

Draw an angle with the measurement given.

1 40°
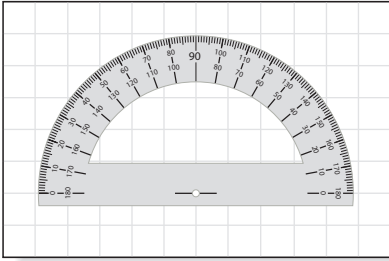
2 115°
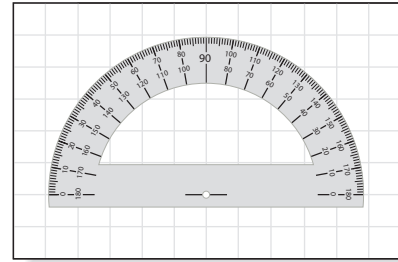
3 180°
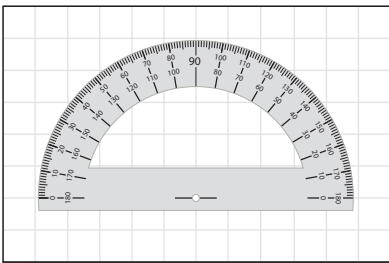
4 60°
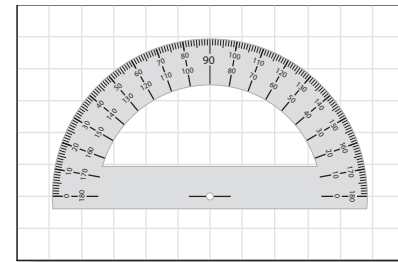
Measure and identify the angle.

5 ∠*ABC* measures _____. ∠*ABC* is a(n) _____ angle.
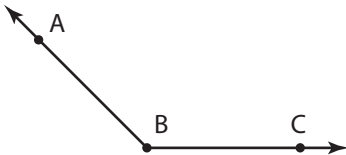
6 ∠*MOP* measures _____. ∠*MOP* is a(n) _____ angle.
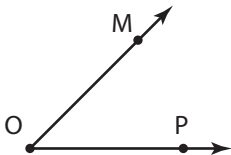
7 ∠*XYZ* measures _____. ∠*XYZ* is a(n) _____ angle.
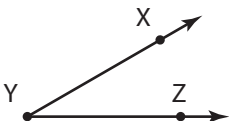
8 ∠*NUT* measures _____. ∠*NUT* is a(n) _____ angle.
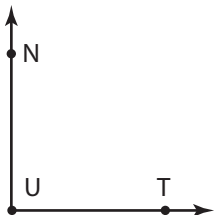
Lesson
4-3 **Practice: Skills**

Draw a figure with the description given.

1 acute, scalene triangle
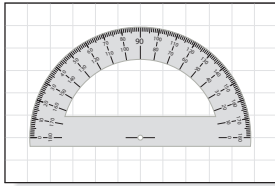
2 rectangle
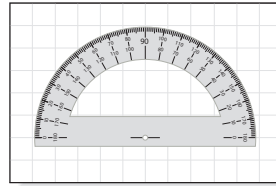
3 right, isosceles triangle
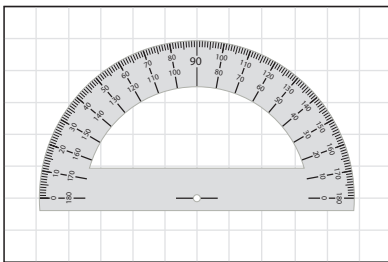
4 trapezoid
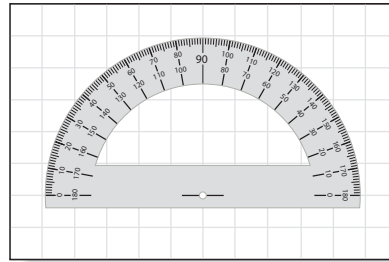
Identify each figure.

5

The figure is a(n) _____.

6

The figure is a(n) _____.

7

The figure is a(n) _____.

8

The figure is a(n) _____.

Chapter 4

Math Triumphs
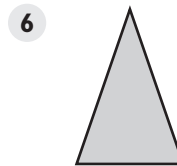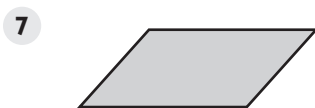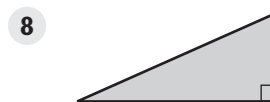
Lesson 4-4 **Practice: Skills**

Name the type of angles shown.

1
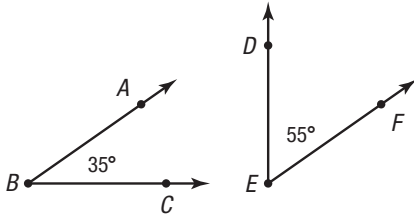
$\angle ABC$ and $\angle DEF$ are _____ angles.

2
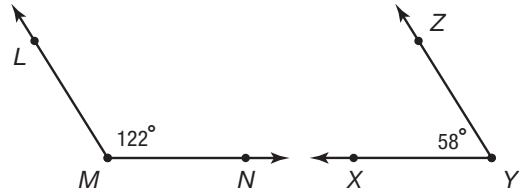
$\angle LMN$ and $\angle XYZ$ are _____ angles.

3
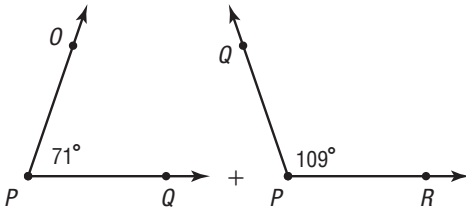
$\angle OPQ$ and $\angle QPR$ are _____ angles.

4
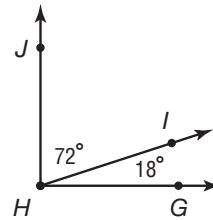
$\angle GHI$ and $\angle IHJ$ are _____ angles.

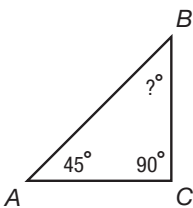**Draw each type of angles given.**

5 Draw supplementary angles.
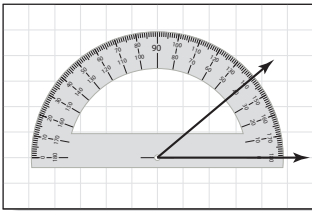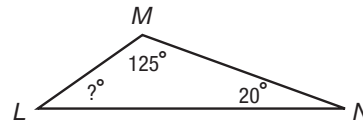
6 Draw complementary angles.
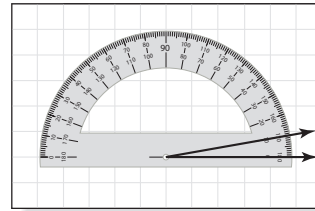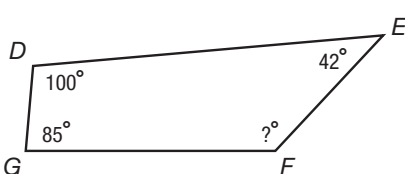
Find the measure of the missing angle.

7

The measure of the missing angle is _____ .

8

The measure of the missing angle is _____.
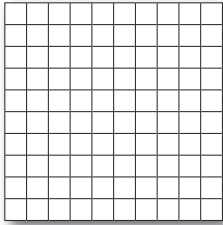
9

The measure of the missing angle is _____.
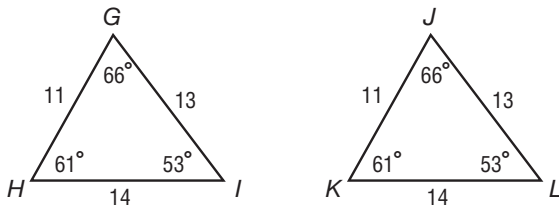
10

The measure of the missing angle is _____.

Math Triumphs

Chapter 4
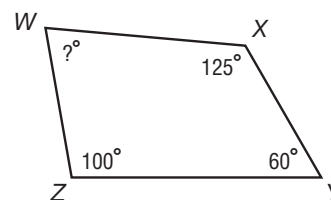
Lesson
4-5 Practice: Skills

Draw two congruent figures.

1 quadrilaterals

Find the corresponding sides and angles.

2

GH corresponds to _____.   *HI* corresponds to _____.
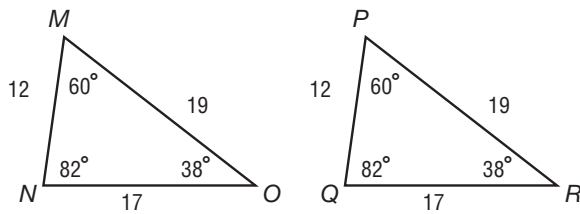
IG corresponds to _____.   ∠*G* corresponds to □ _____.

∠*H* corresponds to □ _____.   ∠*I* corresponds to □ _____.

Are the figures congruent?

3

Find the congruent sides and angles.

MN ≅ _____.   *NO* ≅ _____.   *OM* ≅ _____.

m∠*M* ≅ m∠ _____.   m∠*N* ≅ m∠ _____.   m∠*O* ≅ m∠ _____.

Triangle *MNO* and triangle *PQR* are _____ because corresponding

sides and corresponding angles are _____.

4
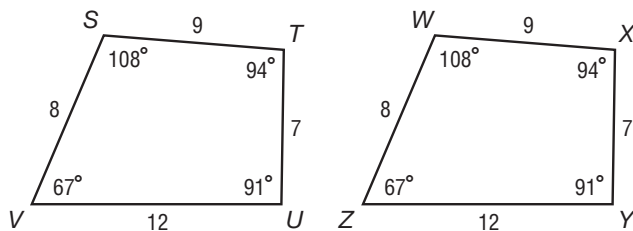
Quadrilateral *STUV* and quadrilateral *WXYZ* are _____ because

corresponding sides and corresponding angles are _____.
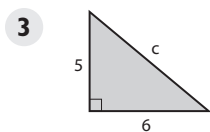
Math Triumphs

Chapter 4

Lesson
4-6 Practice: Skills

Use the measurements given to draw a right triangle or indicate if a right triangle cannot be drawn with the measurements.
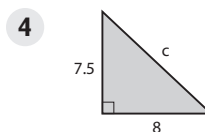
1   4 cm, 5 cm, and 7 cm
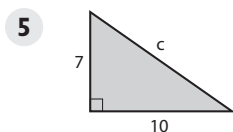
2   12 mm, 16 mm, and 20 mm

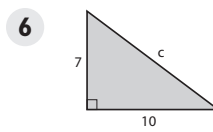**Find the length of the hypotenuse of the right triangle to the nearest tenth.**
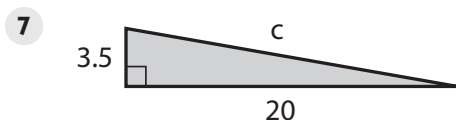
3

5, c, 6

The length of the hypotenuse is _____ units.

4

7.5, c, 8

The length of the hypotenuse is _____ units.

5

7, c, 10

The length of the hypotenuse is _____ units.

6

7, c, 10

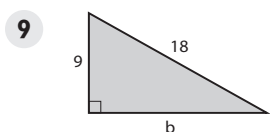The length of the hypotenuse is _____ units.

7

3.5, c, 20

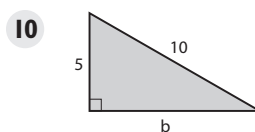The length of the hypotenuse is _____ units.

8

9, c, 9
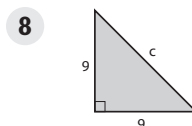
The length of the hypotenuse is _____ units.

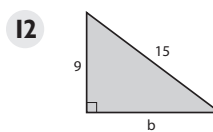**Find the length of the leg of the right triangle to the nearest tenth.**

9

9, 18, b

The length of the leg is _____ units.

10

5, 10, b

The length of the leg is _____ units.

11

6, 11.5, b

The length of the leg is _____ units.

12

9, 15, b

The length of the leg is _____ units.

Math Triumphs
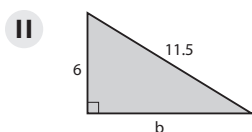
Lesson 4-7 **Practice: Skills**

Identify the length of the radius and diameter of each circle.

1
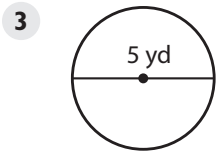
12 m

radius: _____

diameter: _____
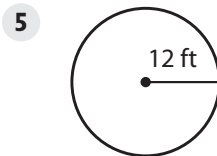
2

18 in.
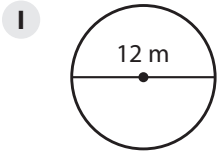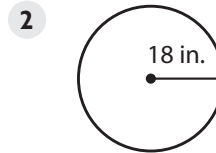
radius: _____

diameter: _____

Find the circumference and area of each circle. Use 3.14 for π.
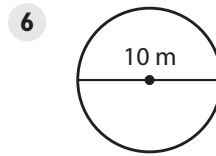
3

5 yd

The circumference of the circle is about

_____ yd and the area of the circle is

about _____ yd².

4

7 mm

The circumference of the circle is about

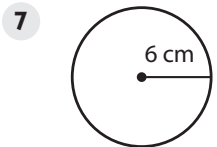_____ mm and the area of the circle is

about _____ mm².

5

12 ft

The circumference of the circle is about

_____ ft and the area of the circle is

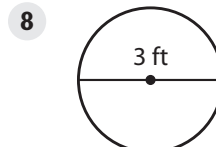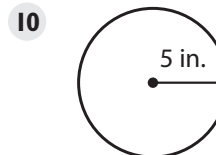about _____ ft².

6

10 m

The circumference of the circle is about
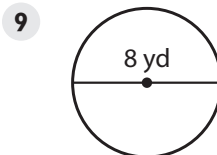
_____ m and the area of the circle is

about _____ m².

Find the circumference and area of each circle. Use $\dfrac{22}{7}$ for π.

7

6 cm

The circumference of the circle is about

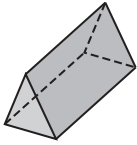_____ cm and the area of the circle is

about _____ cm².

8

3 ft

The circumference of the circle is about
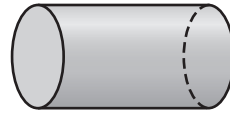
_____ ft and the area of the circle is

about _____ ft².

9

8 yd

10

5 in.

Math Triumphs

Chapter 4

Lesson
4-8 **Practice: Skills**

Name each solid figure.

1

_____

2

_____

3

_____
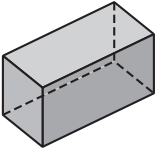
Find the volume of each solid figure. Use 3.14 for π.

4

10 cm

3 cm 4 cm

The volume of the triangular
prism is _____.

5

5 in.

6 in. 7 in.

The volume of the triangular
prism is _____.

6

9 ft

4 ft 8 ft

The volume of the triangular
prism is _____.

7

11 m

6 m 3 m

The volume of the triangular
prism is _____.

8

6 cm

12 cm

The volume of the cylinder
is about _____.

9

10 in.

7 in.

The volume of the cylinder
is about _____.

Chapter 4