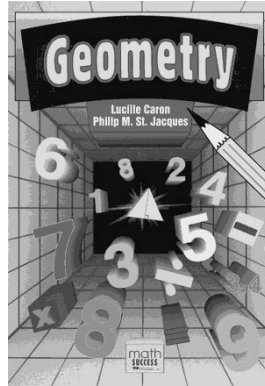


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## Geometry



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## Points, Lines, Planes, Line Segments, and Rays

Fill in the blanks below with these terms.

point      intersecting lines      line      line segment  
plane      perpendicular lines      ray      parallel lines      skewed lines

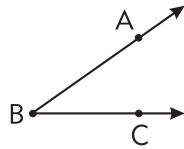
- a. Two lines that meet are called \_\_\_\_\_.
- b. Two lines that intersect and form a right angle are called \_\_\_\_\_.
- c. A \_\_\_\_\_ is part of a line with one endpoint but goes on forever in the other direction.
- d. The symbol for a \_\_\_\_\_ is a dot.
- e. A \_\_\_\_\_ is any flat surface that continues in all directions.
- f. In geometry, a \_\_\_\_\_ extends endlessly in both directions.
- g. A \_\_\_\_\_ is part of a line with two endpoints.
- h. Lines that are not in the same plane and do not intersect are called \_\_\_\_\_.
- i. \_\_\_\_\_ are two lines in the same plane yet never intersect.

## Angles

Fill in the blanks with these terms.

straight angle    right angle    acute angle    obtuse angle    vertex

- a. A \_\_\_\_\_ measures  $90^\circ$ .
- b. When you write an angle with three letters ( $\angle ABC$ ), the \_\_\_\_\_ is always the middle letter.
- c. An \_\_\_\_\_ is greater than  $90^\circ$ .
- d. A \_\_\_\_\_ measures  $180^\circ$ .
- e. An \_\_\_\_\_ is less than  $90^\circ$ .

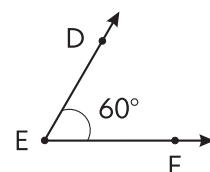
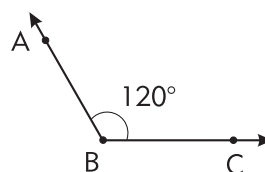
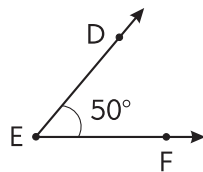
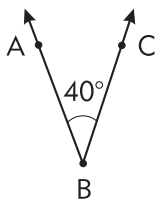


- f. In this figure, the vertex is \_\_\_\_\_.
- g. In the figure, the two rays are \_\_\_\_\_ and \_\_\_\_\_.
- h. In the figure, is the angle acute or obtuse? \_\_\_\_\_

Two angles are complementary if their measures have a sum of  $90^\circ$ .

Two angles are supplementary if their measures have a sum of  $180^\circ$ .

Are the pairs of angles below complementary or supplementary?





i. \_\_\_\_\_

j. \_\_\_\_\_

## Polygons

Write TRUE or FALSE for the following statements.

- a. A polygon must be a closed figure. \_\_\_\_\_
- b. A polygon must be bounded by line segments. \_\_\_\_\_
- c. A circle is a polygon. \_\_\_\_\_
- d. A triangle has 3 sides and 3 angles. \_\_\_\_\_
- e. A polygon with 5 sides is called a hexagon. \_\_\_\_\_
- f. The size of the angles in a triangle must all be the same. \_\_\_\_\_
- g.  is a quadrilateral. \_\_\_\_\_
- h.  is a polygon. \_\_\_\_\_
- i. Octagons have 8 sides. \_\_\_\_\_
- j. Quadrilaterals have 4 angles. \_\_\_\_\_

Fill in the table with the correct numbers.

Polygons	Number of Sides	Number of Angles
Triangles	k.	
Quadrilaterals	l.	
Pentagons	m.	
Hexagons	n.	
Octagons	o.	
Nanogon	p.	
Decagon	q.	

## Triangles

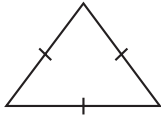
Use these terms to identify the triangles.

right triangle  
scalene triangle

equilateral triangle  
obtuse triangle

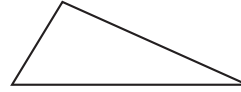
isosceles triangle  
acute triangle

a.



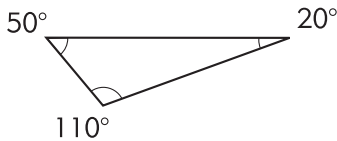
\_\_\_\_\_

b.



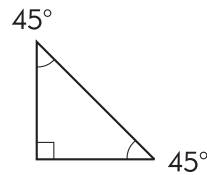
\_\_\_\_\_

c.



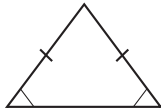
\_\_\_\_\_

d.



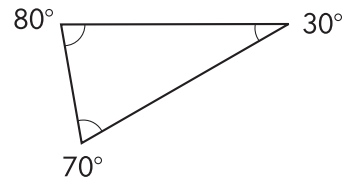
\_\_\_\_\_

e.



\_\_\_\_\_

f.



\_\_\_\_\_

Fill in the blanks.

- g. An angle greater than 90 degrees is an \_\_\_\_\_ angle.
- h. All the angles of a triangle add up to \_\_\_\_\_ degrees.
- i. A right angle is one that is equal to \_\_\_\_\_ degrees.
- j. Two figures are \_\_\_\_\_ if they are the same size and the same shape.
- k. An angle less than 90 degrees is an \_\_\_\_\_ angle.

## Circles

Use these terms to identify the circles.

radius

semicircle

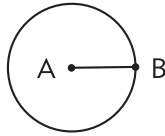
chord

diameter

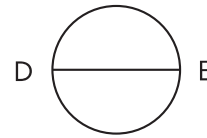
arc

central angle

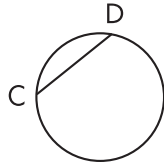
a.


 $\overline{BA} =$  \_\_\_\_\_

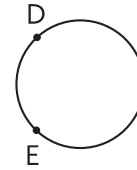
b.


 $\overline{DE} =$  \_\_\_\_\_

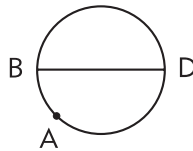
c.


 $\overline{CD} =$  \_\_\_\_\_

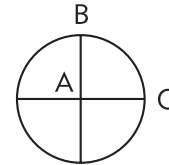
d.


 $DE =$  \_\_\_\_\_

e.


 $\angle DAB =$  \_\_\_\_\_

f.


 $\angle BAC =$  \_\_\_\_\_

Fill in the blanks.

g. The \_\_\_\_\_ of a circle is another name for the perimeter of a circle.

h. An \_\_\_\_\_ is part of a circle named by either two or three points on the circumference of the circle.

i. A \_\_\_\_\_ is a line segment that connects any two points on the circle.

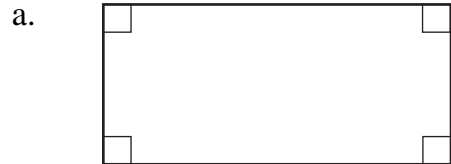
j. A chord that passes through the center of a circle is called a \_\_\_\_\_.

k. A \_\_\_\_\_ angle has the center of a circle as its vertex.

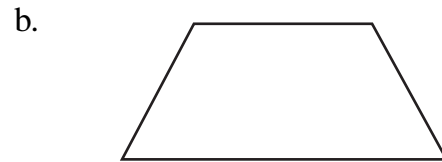
## Quadrilaterals

Use these terms to identify the quadrilaterals.

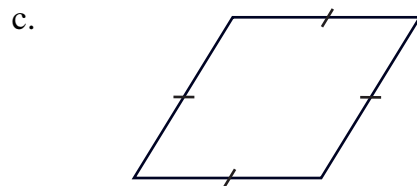
square      rhombus      trapezoid      rectangle



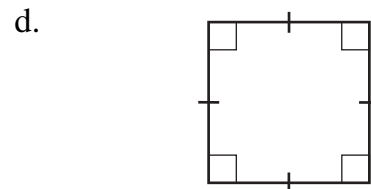
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

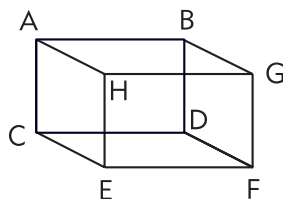
Fill in the blanks.

- e. \_\_\_\_\_ lines are lines that never meet.
- f. A \_\_\_\_\_ is a quadrilateral with opposite sides that are parallel.
- g. Every rectangle is a \_\_\_\_\_.
- h. Every rhombus is a \_\_\_\_\_.
- i. Every \_\_\_\_\_ is a rectangle, rhombus, and parallelogram.
- j. A \_\_\_\_\_ is a polygon with four sides.

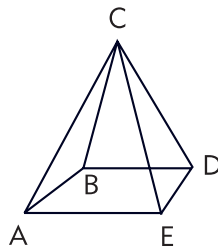
## Prisms and Pyramids

Fill in the blanks.

- a. Two-dimensional objects have \_\_\_\_\_ and \_\_\_\_\_.
- b. Three-dimensional objects have \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.



- c. The 6 faces in the above quadrilateral prism are \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.



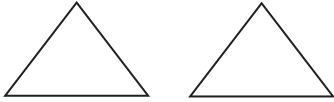
- d. The pyramid above is a quadrilateral pyramid because the \_\_\_\_\_ of the pyramid is a quadrilateral.
- e. The point at which the faces of a pyramid meet is called the \_\_\_\_\_.
- f. The 5 faces of this pyramid are \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.



## Congruent Figures

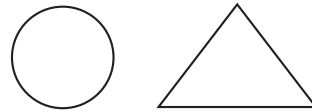
Label the following figures as congruent or not congruent.

a.



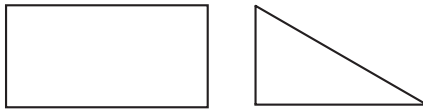
\_\_\_\_\_

b.



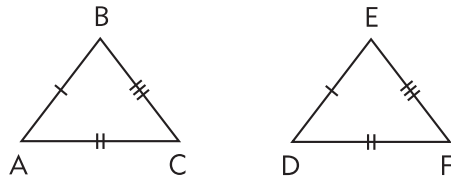
\_\_\_\_\_

c.



\_\_\_\_\_

Use triangles ABC and DEF for the following problems.

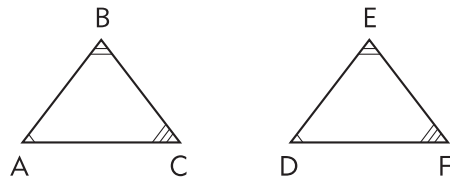


d.  $\overline{AB} \cong$  \_\_\_\_\_      e.  $\overline{AC} \cong$  \_\_\_\_\_      f.  $\overline{BC} \cong$  \_\_\_\_\_

g. Triangle ABC is congruent to triangle DEF because the corresponding sides are \_\_\_\_\_.

h. The triangles have the same \_\_\_\_\_.

Use triangles ABC and DEF for the following problems.



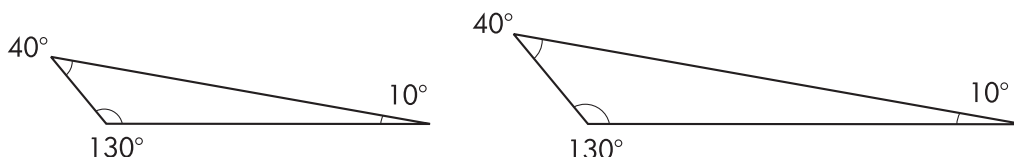
i.  $\angle A = \angle$  \_\_\_\_\_      j.  $\angle B = \angle$  \_\_\_\_\_      k.  $\angle C = \angle$  \_\_\_\_\_

l. Triangle ABC is congruent to triangle DEF because the corresponding \_\_\_\_\_ and the corresponding \_\_\_\_\_ are congruent.

## Similar Figures

Similar figures have the same shape but not necessarily the same size.

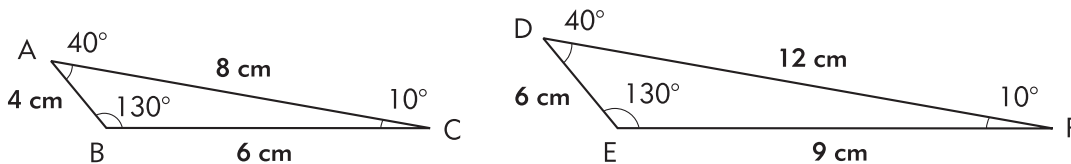
Corresponding angles of similar triangles are congruent.



Give the corresponding angles for the following using the figures below.

- a.  $\angle A \cong$  \_\_\_\_\_      b.  $\angle B \cong$  \_\_\_\_\_      c.  $\angle C \cong$  \_\_\_\_\_

Triangles are similar if corresponding angles are equal. As a result the ratios of the lengths of corresponding sides are also equal.



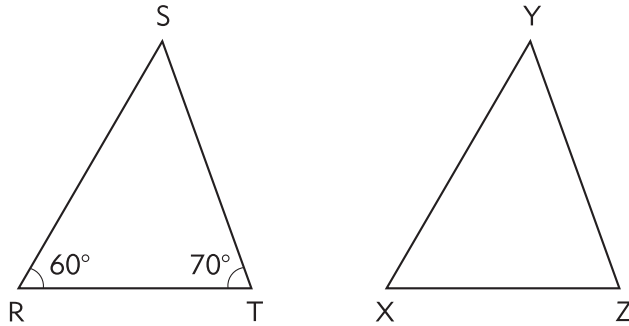
$$\frac{\text{Length } \overline{AB}}{\text{Length } \overline{DE}} = \frac{4}{6} = \frac{2}{3}$$

d.  $\frac{\text{Length } \overline{BC}}{\text{Length } \overline{EF}} =$  \_\_\_\_\_

e.  $\frac{\text{Length } \overline{AC}}{\text{Length } \overline{DF}} =$  \_\_\_\_\_

## Similar Figures, continued

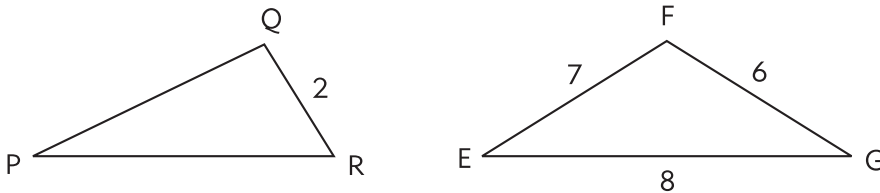
Triangle RST and triangle XYZ are similar.



Find the measure of each angle.

- a.  $\angle S$  \_\_\_\_\_                      b.  $\angle X$  \_\_\_\_\_  
 c.  $\angle Z$  \_\_\_\_\_                      d.  $\angle Y$  \_\_\_\_\_

Triangle PQR and triangle EFG are similar.



Write the corresponding sides.

- e.  $\overline{PQ} \leftrightarrow$  \_\_\_\_\_                      f.  $\overline{QR} \leftrightarrow$  \_\_\_\_\_                      g.  $\overline{PR} \leftrightarrow$  \_\_\_\_\_

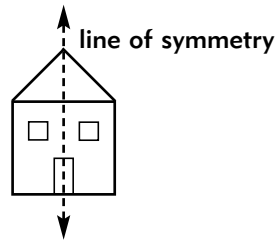
Find the length of each side.

- h. side  $\overline{PQ} =$  \_\_\_\_\_  
 i. side  $\overline{PR} =$  \_\_\_\_\_

## Symmetry

Many designers use symmetry to create their designs and to create two matching parts. Some buildings are designed to be symmetrical.

You can create a line of symmetry in the drawing of the house below by placing a line down the center of the house. The house has two matching halves.

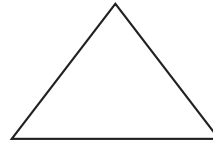


Draw the lines of symmetry on the following figures.

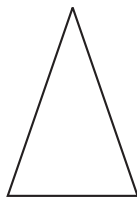
a.



b.



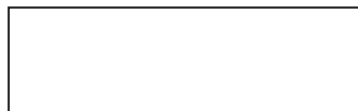
c.



d.



e.

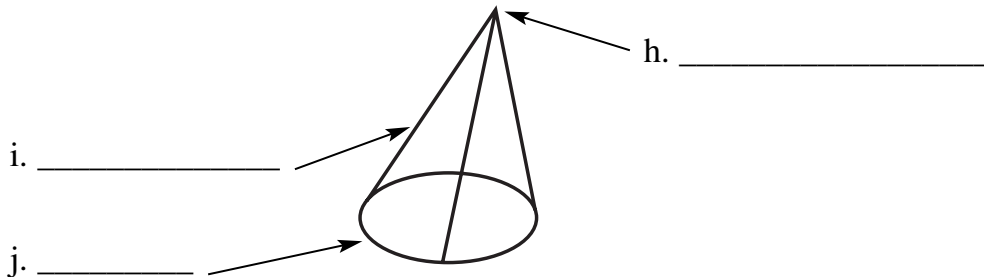


## Cones and Cylinders

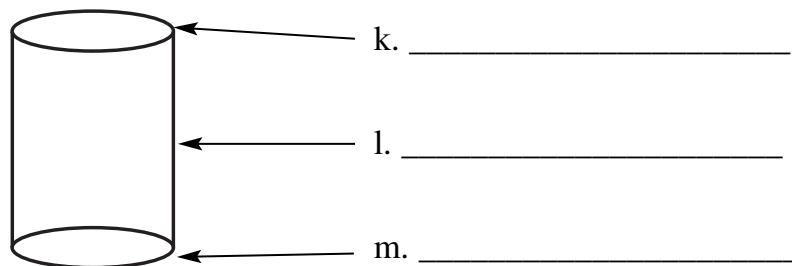
Label the following statements as either true or false. Correct the false statements.

- a. Congruent means having the same size and shape. \_\_\_\_\_
- b. A cone is a two-dimensional figure that has a closed curve for a base. \_\_\_\_\_
- c. The base of a cone is a nonpolygon. \_\_\_\_\_
- d. The point of a cone is called the vertex. \_\_\_\_\_
- e. A can is an example of a cone. \_\_\_\_\_
- f. A cylinder has no vertex. \_\_\_\_\_
- g. A cylinder has two parallel bases. \_\_\_\_\_

Label the parts of a cone.



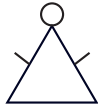
Label the parts of a cylinder.



## Slides

A slide is made by moving a figure or object along a line.

- a. Draw a slide image of this figure.



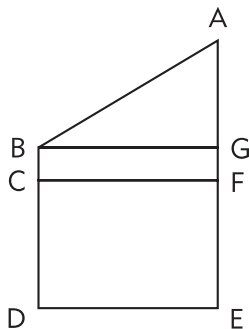
- b. Draw a slide image of this letter.



## Reflections

A flip image is called a reflection.

- c. Draw a reflection of this figure.



## Rotations

Turning a figure around a point is called a rotation.

Rotate this figure 90 degrees to the right by the number of turns listed below.



- a. 1 turn to the right.
- b. 2 turns to the right.
- c. 3 turns to the right.
- d. 4 turns to the right.

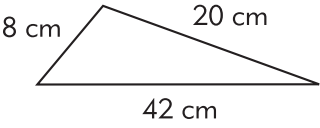
Rotate this figure 90 degrees to the left by the number of turns listed below.



- a. 1 turn to the left.
- b. 2 turns to the left.
- c. 3 turns to the left.
- d. 4 turns to the left.

## Perimeters

The perimeter of a figure is the distance around it. To find the perimeter of a polygon, add the lengths of all the sides.

**Example:**  perimeter, or  $P = 8 \text{ cm} + 20 \text{ cm} + 42 \text{ cm} = 70 \text{ cm}$

**Formula for a square**

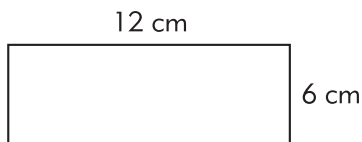
$P = 4 \times s$  ( $s = \text{length of one side}$ )

**Formula for a rectangle**

$P = (2 \times \text{length}) + (2 \times \text{width})$ , or  $2(l + w)$

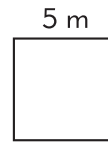
Find the perimeter of each polygon.

a.



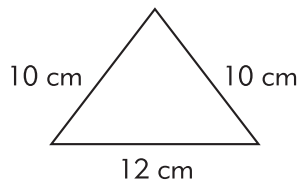
$P =$  \_\_\_\_\_

b.



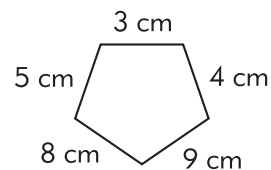
$P =$  \_\_\_\_\_

c.



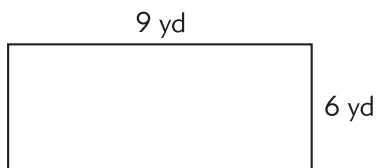
$P =$  \_\_\_\_\_

d.



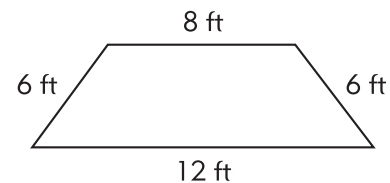
$P =$  \_\_\_\_\_

e.



$P =$  \_\_\_\_\_

f.



$P =$  \_\_\_\_\_



## Areas of Rectangles and Squares

Area of rectangle = length  $\times$  width, or  $lw$

**Example:** Your living room is 12 feet long and 10 feet wide. What is the area of this room?

$$A = l \times w$$

$$A = 10 \text{ feet} \times 12 \text{ feet}$$

$$A = 120 \text{ square feet} \quad \text{NOTE: Area is always expressed in square units.}$$

Area of a square = side  $\times$  side, or  $s^2$

**Example:** Find the area of a room that is 8 feet square.

$$A = s^2$$

$$A = 8 \text{ feet} \times 8 \text{ feet}$$

$$A = 64 \text{ square feet}$$

Find the area of the following.

a. a rectangle 64 cm by 10 cm

\_\_\_\_\_

b. a square whose side is 15 feet

\_\_\_\_\_

c. a square whose side is 4.7 meters

\_\_\_\_\_

d. a rectangle 3.4 feet by 8 feet

\_\_\_\_\_

e. a rectangle 35 meters by 14 meters

\_\_\_\_\_

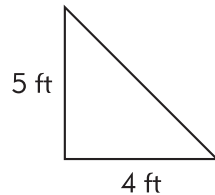
f. a square whose side is 7 inches

\_\_\_\_\_

## Areas of a Triangles

Area of triangle =  $\frac{1}{2} \times \text{base} \times \text{height}$ , or  $\frac{1}{2} \times b \times h$

**Example:**



$$A = \frac{1}{2} \times \text{base} \times \text{height}$$

$$A = \frac{1}{2} \times 4 \text{ feet} \times 5 \text{ feet}$$

$$A = 10 \text{ square feet}$$

Find the area of these triangles.

a. base 4 m, height 3.5 m

---

b. base 80 cm, height 60 cm

---

c. base 2.4 m, height 2.4 m

---

d. base 16 ft, height 4 ft

---

e. base 7 in, height 6 in

---

f. base 12 ft, height 8 ft

---

g. base 23 ft, height 16 ft

---

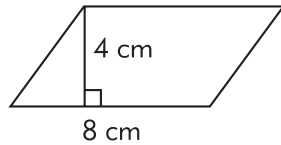
h. base 10 m, height 21 m

---

## Areas of a Parallelograms

Area of parallelogram = base  $\times$  height, or  $b \times h$

**Example:**



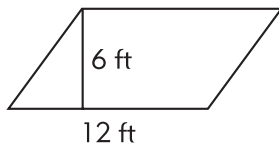
$$A = b \times h$$

$$A = 8 \text{ cm} \times 4 \text{ cm}$$

$$A = 32 \text{ sq cm}$$

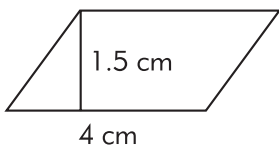
Find the area of these parallelograms.

a.



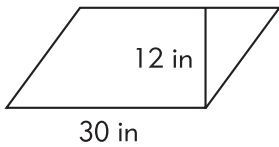
\_\_\_\_\_

b.



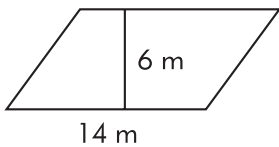
\_\_\_\_\_

c.



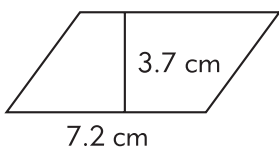
\_\_\_\_\_

d.



\_\_\_\_\_

e.



\_\_\_\_\_

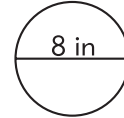
## Circumference and Area of Circles

Circumference of a circle is another name for the perimeter of a circle.

$$\text{Circumference of a circle} = \pi \times d \quad \left(\pi = 3.14, \text{ or } \frac{22}{7}\right)$$

**Example:** Find the circumference of a plate whose diameter is 8 inches.

$$\begin{aligned} \text{Circumference} &= \pi \times d \\ &= 3.14 \times 8 \text{ inches} \\ &= 25.12 \text{ inches} \end{aligned}$$

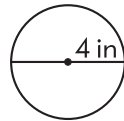


Find the circumference of circles with the following diameters.

- a.  $d = 12$  feet \_\_\_\_\_
- b.  $d = 18$  inches \_\_\_\_\_
- c.  $d = 7$  centimeters \_\_\_\_\_
- d.  $d = 35$  feet \_\_\_\_\_
- e.  $d = 11$  centimeters \_\_\_\_\_
- f.  $d = 50$  meters \_\_\_\_\_

Area of a circle =  $\pi \times \text{radius} \times \text{radius}$ , or  $\pi r^2$

**Example:** Find the area of a dinner plate whose diameter is 8 inches. The radius is half the diameter.



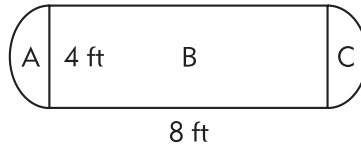
$$\begin{aligned} A &= 3.14 \times 4 \times 4 \\ A &= 50.24 \text{ sq in} \end{aligned}$$

Find the area of these circles with the following radii.

- a.  $r = 6$  centimeters \_\_\_\_\_
- b.  $r = 6$  feet \_\_\_\_\_
- c.  $r = 7$  centimeters \_\_\_\_\_
- d.  $r = 35$  feet \_\_\_\_\_

## Areas of Composites

A composite is a figure made up of distinct parts, such as a rectangle and half circles.



**Example:** Find the area of this composite.

*Step 1:* First find the areas of A, B, and C.

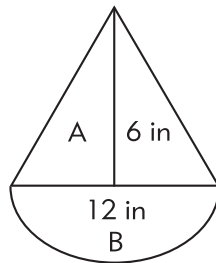
$$a. \text{ Area A} = \text{Area C} = \frac{1}{2} \pi r^2 = \frac{1}{2} \times 3.14 \times 2 \text{ ft} \times 2 \text{ ft} = 6.28 \text{ sq ft}$$

$$b. \text{ Area B} = l \times w = 8 \text{ ft} \times 4 \text{ ft} = 32 \text{ sq ft}$$

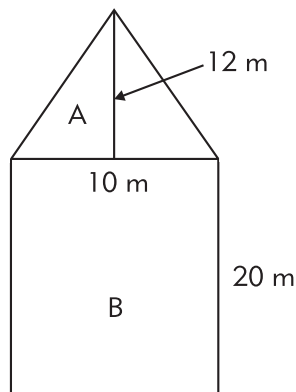
*Step 2:* Find the sum of areas A, B, and C.

$$6.28 \text{ sq ft} + 6.28 \text{ sq ft} + 32 \text{ sq ft} = 44.56 \text{ sq ft}$$

Find the areas of these composite figures.



a. \_\_\_\_\_



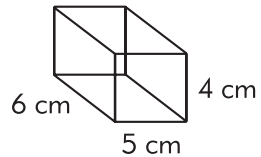
b. \_\_\_\_\_

## Volume of Prisms

The space that a three-dimensional figure can hold is called its volume.

Volume of a prism = area of base  $\times$  height

**Example:**

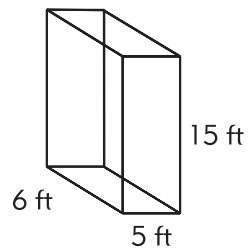


$$\text{Area of base} = 6 \text{ cm} \times 5 \text{ cm} = 30 \text{ sq cm}$$

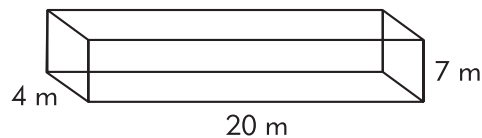
$$\text{Volume} = 30 \text{ sq cm} \times 4 \text{ cm}$$

$$\text{Volume} = 120 \text{ cubic cm}$$

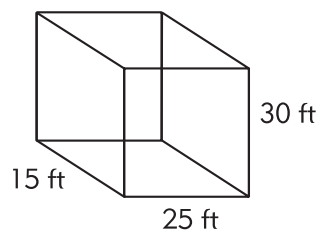
Find the volume of these prisms.



a. \_\_\_\_\_



b. \_\_\_\_\_

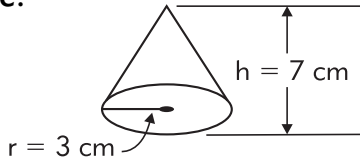


c. \_\_\_\_\_

## Volume of Cones and Cylinders

$$\text{Volume of a cone} = \frac{1}{3} \pi r^2 h$$

**Example:**



$$\text{Volume} = \frac{1}{3} \pi r^2 h$$

$$\begin{aligned} \text{Volume} &= \frac{1}{3} \times \frac{22}{7} \times \frac{9}{1} \text{ cm} \times \frac{7}{1} \text{ cm} \\ &= \mathbf{66 \text{ cubic cm}} \end{aligned}$$

Find the volume of the cones with these dimensions.

a. radius 4 cm, height 15 cm

\_\_\_\_\_

b. radius 5 cm, height 12 cm

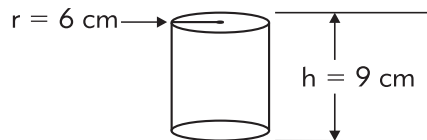
\_\_\_\_\_

c. radius 3 cm, height 28 cm

\_\_\_\_\_

$$\text{Volume of a cylinder} = \pi r^2 h$$

**Example:**



$$\text{Volume} = \pi r^2 h$$

$$\text{Volume} = 3.14 \times 6 \text{ cm} \times 6 \text{ cm} \times 9 \text{ cm}$$

$$\text{Volume} = \mathbf{1,017.36 \text{ cubic cm}}$$

Find the volume of the cylinders with these dimensions.

a. radius 7 in, height 12 in

\_\_\_\_\_

b. radius 2 cm, height 5 cm

\_\_\_\_\_

c. radius 8 cm, height 10 cm

\_\_\_\_\_

# Geometry Answers

## Points, Lines, Planes, Line Segments, and Rays, page 2

a. intersecting lines; b. perpendicular lines; c. ray; d. point; e. plane; f. line; g. line segment; h. skewed lines; i. parallel lines

## Angles, page 3

a. right angle; b. vertex; c. obtuse angle; d. straight angle; e. acute angle; f. B; g. BA, BC; h. acute; i. complementary; j. supplementary

## Polygons, page 4

a. true; b. true; c. false; d. true; e. false; f. false; g. true; h. false; i. true; j. true  
k. 3, 3; l. 4, 4; m. 5, 5; n. 6, 6; o. 8, 8; p. 9, 9; q. 10, 10

## Triangles, page 5

a. equilateral triangle; b. scalene triangle; c. obtuse triangle; d. right triangle;  
e. isosceles triangle; f. acute triangle; g. obtuse; h. 180; i. 90; j. congruent; k. acute

## Circles, page 6

a. radius; b. diameter; c. chord; d. arc; e. semicircle; f. central angle;  
g. circumference; h. arc; i. chord; j. diameter; k. central

## Quadrilaterals, page 7

a. rectangle; b. trapezoid; c. rhombus; d. square; e. Parallel; f. parallelogram;  
g. parallelogram; h. parallelogram; i. square; j. quadrilateral

## Prisms and Pyramids, page 8

a. length, width; b. length, width, height; c. CDFE, ABGH, BGFD, ABDC, HGFE, ACEH; d. base; e. vertex; f. ABDE, CAB, CBD, CED, CAE

## Congruent Figures, page 9

a. congruent; b. not congruent; c. not congruent; d. DE; e. DF; f. EF; g. congruent;  
h. shape; i.  $\angle D$ ; j.  $\angle E$ ; k.  $\angle F$ ; l. diameter; m. angles/sides; sides/angles

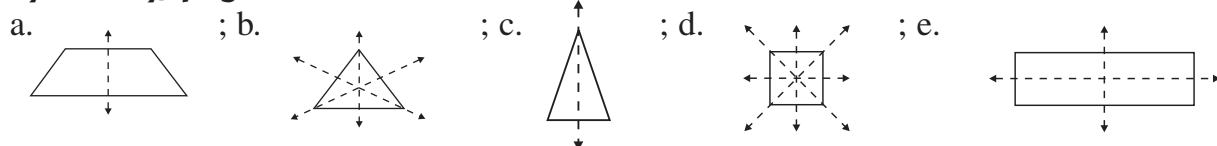
## Similar Figures, page 10

a.  $\angle D$ ; b.  $\angle E$ ; c.  $\angle F$ ; d.  $\frac{4}{6} = \frac{2}{3}$ ; e.  $\frac{8}{12} = \frac{2}{3}$

## Similar Figures, con't, page 11

a.  $50^\circ$ ; b.  $60^\circ$ ; c.  $70^\circ$ ; d.  $50^\circ$ ; e. EF; f. FG; g. EG; h.  $2\frac{1}{3}$ ; i.  $2\frac{2}{3}$

## Symmetry, page 12

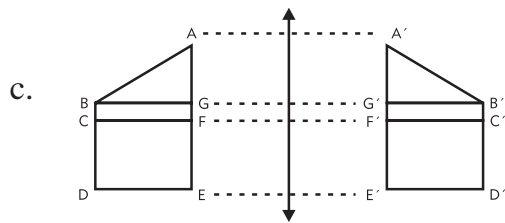
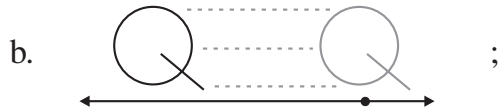




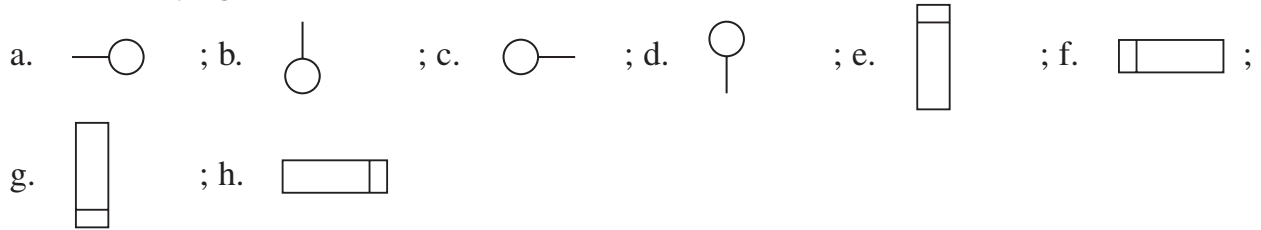
### **Cones and Cylinders, page 13**

a. true; b. false, three-dimensional; c. true; d. true; e. false, cylinder; f. true; g. true;  
h. vertex; i. lateral face; j. base; k. base; l. lateral face; m. base

### **Slides and Reflections, page 14**



### **Rotations, page 15**



### **Perimeters, page 16**

a. 36 cm; b. 20 m; c. 32 cm; d. 29 cm; e. 30 yd; f. 32 ft

### **Areas of Rectangles and Squares, page 17**

a. 640 sq cm; b. 225 sq ft; c. 22.09 sq m; d. 27.2 sq ft; e. 490 sq m; f. 49 sq in

### **Areas of Triangles, page 18**

a. 7 sq m; b. 2,400 sq cm; c. 288 sq cm; d. 32 sq ft; e. 21 sq in; f. 48 sq ft;  
g. 184 sq ft; h. 105 sq m

### **Areas of Parallelograms, page 19**

a. 72 sq ft; b. 6 sq cm; c. 360 sq in; d. 84 sq m; e. 26.64 sq cm

### **Circumference and Area of Circles, page 20**

a. 37.68 ft; b. 56.52 in; c. 21.98 cm; d. 109.9 ft; e. 34.54 cm; f. 157 m;  
g. 113.04 sq cm; h. 28.26 sq ft; i. 314 sq m; j. 153.86 sq ft

**Areas of Composites, page 21**

a. 92.52 sq in; b. 260 sq m

**Volume of Prisms, page 22**

a. 450 sq ft; b. 560 sq m; c. 11,250 sq ft

**Volume of Cones and Cylinders, page 23**

a. 251.2 cubic cm; b. 314 cubic cm; c. 264 cubic cm; d. 1,846.32 cubic in;  
e. 62.8 cubic cm; f. 210.96 cubic cm