#### STUDY GUIDES

A



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| 4 St                                    | 5.1  | Place Value                   |      |
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| Weeks                                   | 5.5  | Division                      |      |
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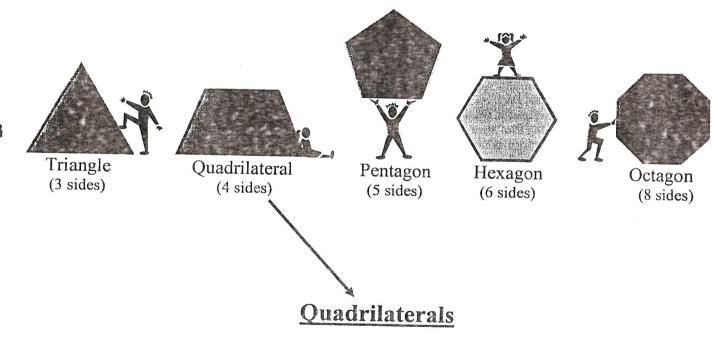
## Plane Figures

A plane figure lies flat on a flat surface. Most plane figures are polygons.

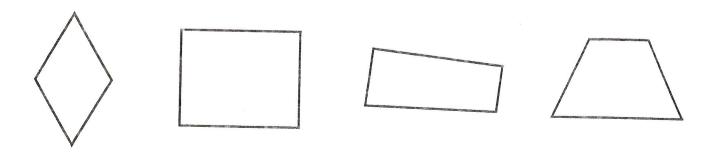
#### **Polygons**

A **polygon** is a closed figure whose sides are made up of line segments. You name a polygon by the number of sides it has.

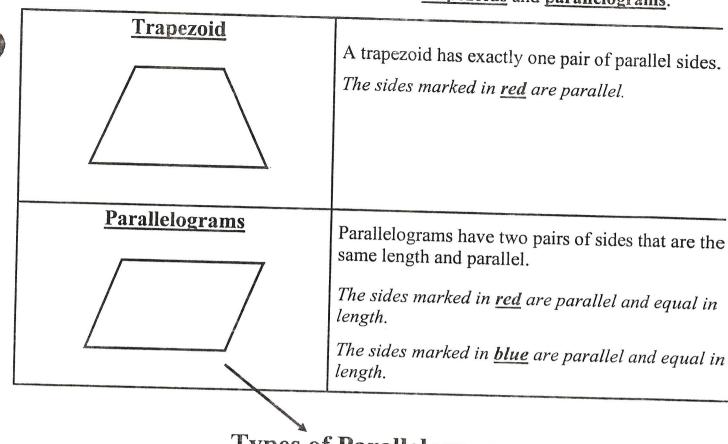
A <u>regular polygon</u> has all <u>sides</u> the same length, and all <u>angles</u> the same measure.



A quadrilateral is a polygon with exactly 4 sides.

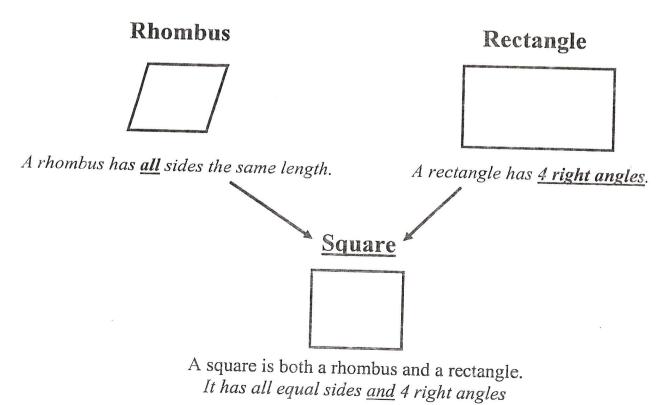


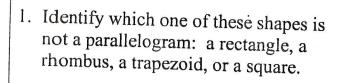
The quadrilaterals you need to be familiar with are trapezoids and parallelograms.



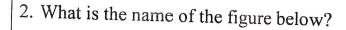
### Types of Parallelograms

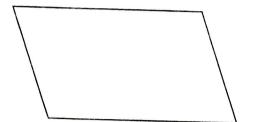
Parallelograms are divided into two types: rhombi and rectangles.





- A. rectangle
- B. rhombus
- C. trapezoid
- D. square





- A. rectangle
- B. trapezoid
- C. parallelogram
- D. rhombus

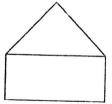


3. What is this shape?

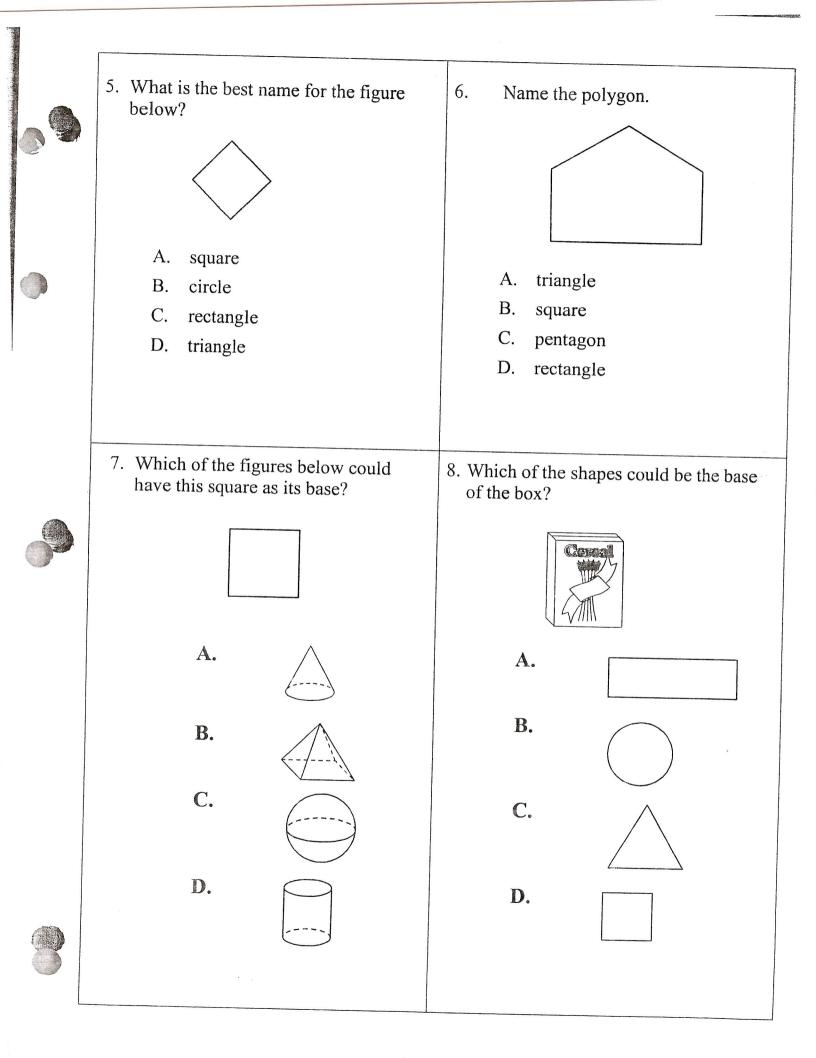


- A. a pentagon
- B. a hexagon
- C. a rectangle
- D. two triangles

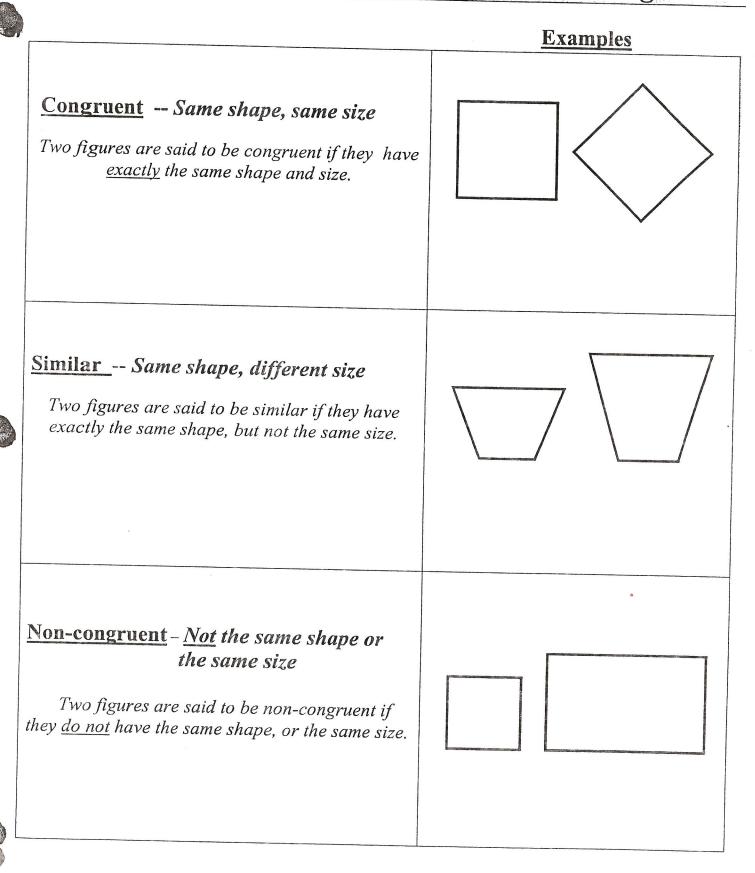
4. What two shapes make up this figure?



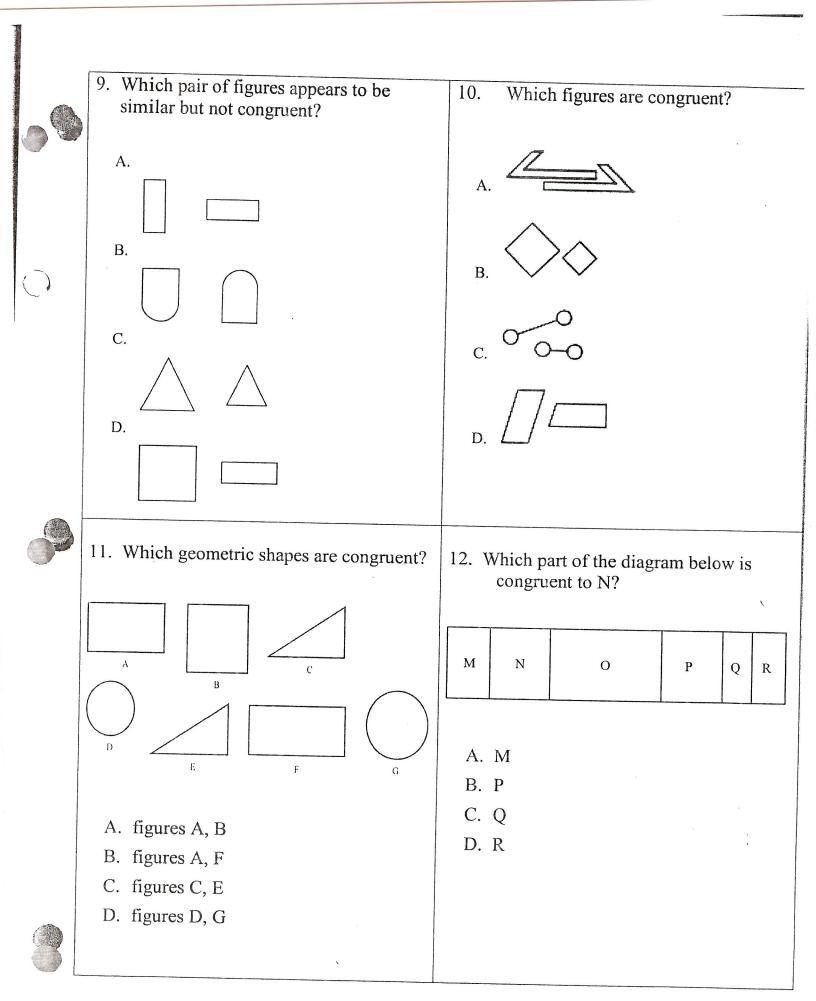
- A. triangle and square
- B. rectangle and square
- C. pentagon and triangle
- D. triangle and rectangle

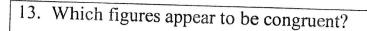


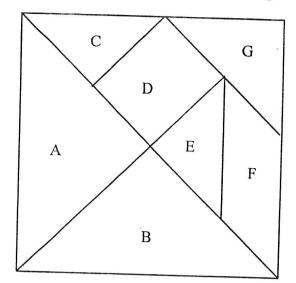
# Congruent, Non-Congruent, and Similar Figures



Write <u>congruent</u>, <u>non-congruent</u>, or <u>similar</u> under each set of figures.

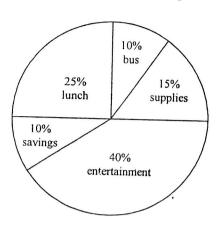




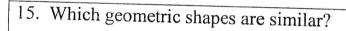


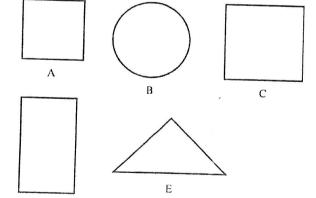
- A. G and E
- B. A and B
- C. A and F
- D. E and G

14. Miguel gets an allowance of \$20.00 a month. Refer to the circle graph below then select the correct response.



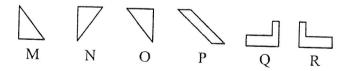
- A. Miguel's entertainment budget is congruent to his lunch budget.
- B. Miguel's school-supplies budget is congruent to his bus budget.
- C. Miguel's savings budget is congruent to his bus budget.
- D. Miguel's lunch budget is congruent to the sum of his bus and savings budget.



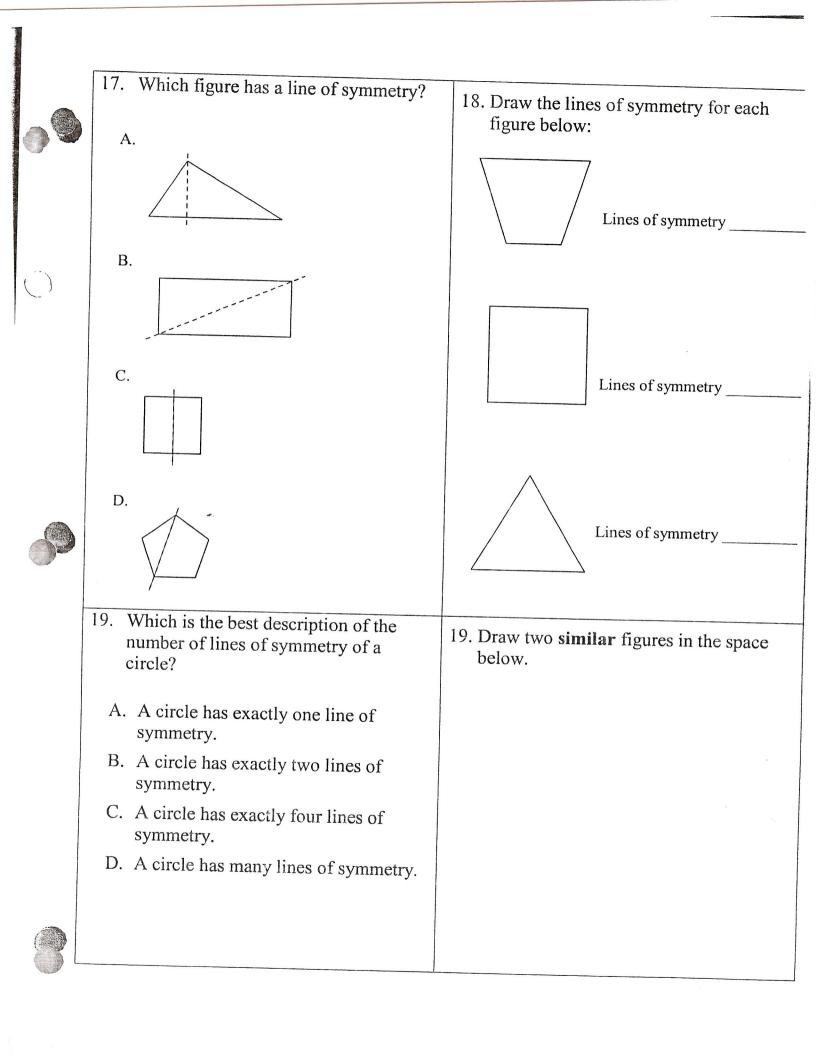


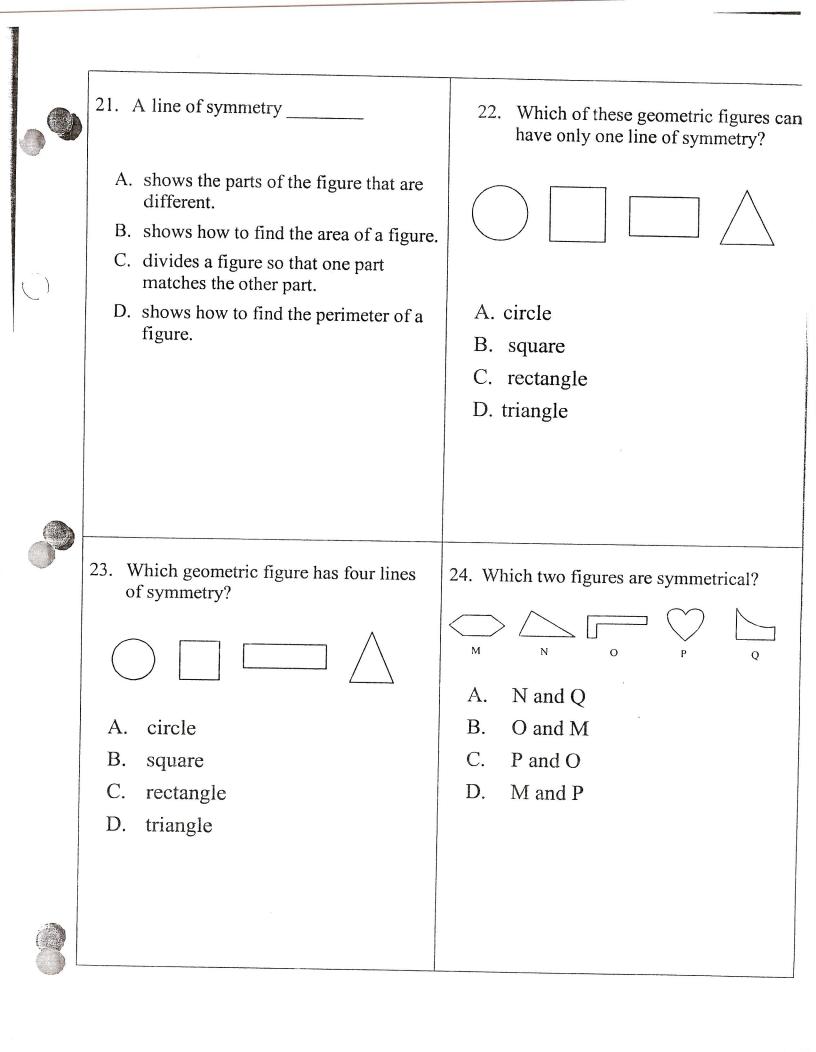
- A. figures A and C
- B. figures A and D
- C. figures C and D
- D. figures E and B

16. If M is congruent to N and M is congruent to O, then \_\_\_\_



- A. N is congruent to O.
- B. Q is congruent to R.
- C. N is congruent to P.
- D. M is congruent to P.



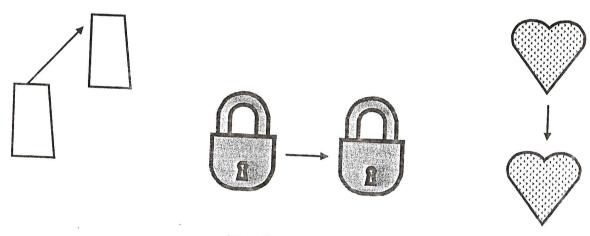


# Geometric Transformations

Figures can <u>transform</u> (move or change position). The figure itself does not change, but its position does. There are three types of <u>transformations</u> you need to know:

### Translation (Slide)

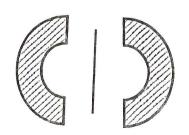
In a translation, or slide, the figure slides along a straight line – like sliding a book on your desk from one side to another.



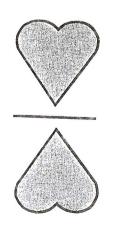
### Reflection (Flip)

In a reflection, or flip, a figure is "flipped" over a real or imaginary line. The figure can flip vertically or horizontally.

# Vertical Flip The figure flips over a vertical line.



# Horizontal Flip The figure flips over a horizontal line.



### Rotation (Turn)

In a rotation, the figure rotates, or turns, around a point.

The figure can rotate in two directions: <u>clockwise</u> and <u>counterclockwise</u>.

How far a figure rotates is measured in degrees, usually  $90^{\circ}$  (1/4 turn),  $180^{\circ}$  (1/2 turn),  $270^{\circ}$  (3/4 turn), or  $360^{\circ}$  (full turn).

#### **Clockwise rotation**





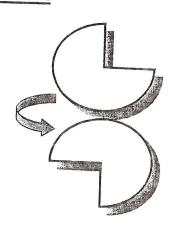
90° (1/4 turn)

180° (1/2 turn)

#### Counterclockwise rotation



90° (1/4 turn)



180° (1/2 turn)



1. Which answer choice shows a reflection of this figure?











2. How has the dime been moved?





A. by using a reflection

B. by using a translation

C. by using a rotation

D. cannot be determined



3. Look at the figure below.



If the figure is reflected once, how will it look?

Α



В.



D



4. Look at the design below.



Which figure shows the design rotated 90 degrees clockwise?





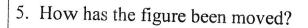


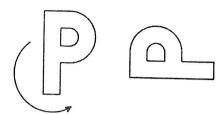












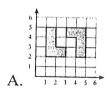
- A. with a reflection
- B. with a translation
- C. with a rotation
- D. cannot be determined

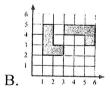
#### 6. How has the figure been moved?

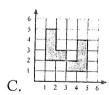


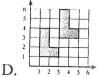
- A. using a reflection
- B. using a translation
- C. using a rotation
- D. cannot be determined

## 7. Which pair of figures shows an example of a translation?

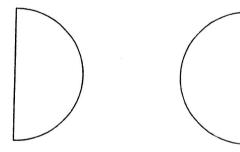








## 8. Which geometric term is being illustrated below?



- A. reflection
- B. translation
- C. rotation
- D. tilt

| Perimo | eter |
|--------|------|
|--------|------|

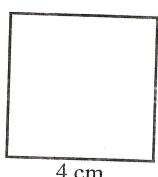


Perimeter is the distance around a polygon. To find the perimeter of any polygon, you only need to add the lengths of its sides.

## Finding the Perimeter of Squares

Sometimes you are given a diagram, and sometimes you are not. In any case, if you know the length of one side of the square, you can find its perimeter, since all sides of a square are the same length.

<u>Problem 1</u> — Find the perimeter of the square shown below.



Add all sides.

4 cm

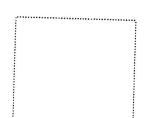
Perimeter = \_\_\_\_\_ cm

Problem 2 - Find the perimeter of a square with sides 7 cm long.

Step 1: Draw the figure as described.

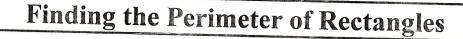
Step 2: Add all sides.

Add all sides.



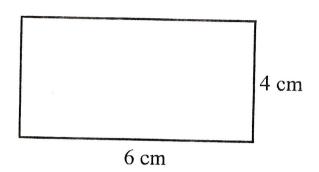
Perimeter = \_\_\_\_\_ cm







**Problem 1** — If you have a diagram, fill in any missing measurements and then add all sides.



Perimeter = \_\_\_\_\_ cm

<u>Problem 2</u> -- If you do not have a diagram, draw the figure, fill in the measurements and then add all sides.



Find the perimeter of a rectangle with a length of 6 inches and a width of 2 inches.

- 1. Draw the rectangle
- 2. Fill in measurements.
- 3. Add all sides together.

Perimeter = \_\_\_\_\_ cm



## Finding the Perimeter of Other Polygons



#### Example 1:

Add the lengths of all sides together. The sum is the perimeter of the polygon.

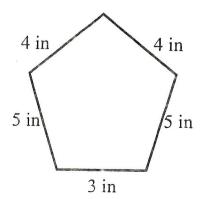


Perimeter = \_\_\_\_



#### Example 2:

Add the lengths of all sides together. The sum is the perimeter of the polygon.





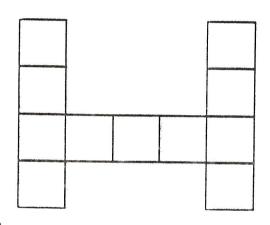
Perimeter = \_\_\_\_

### Perimeter of a Shaded Figure



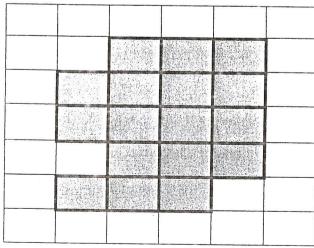
To find the perimeter of a shaded figure, just count each line that makes up the border of the figure. Making a mark on each line as you count it will help you keep track of what you have counted.

Example 1: Find the perimeter of the shaded figure.



Perimeter = \_\_\_\_

#### Example 2: Find the perimeter of the shaded figure.



Perimeter = \_\_\_\_

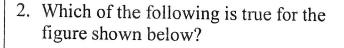


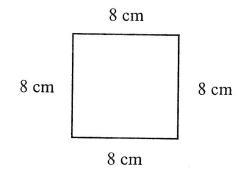
1. Jade has a garden with the following dimensions.

10 meters 5 meters 5 meters 12 meters

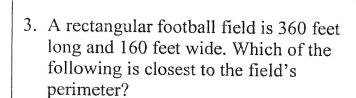
What is the perimeter of Jade's garden?

- A. 44 meters
- B. 70 square meters
- C. 142 meters
- D. 142 square meters



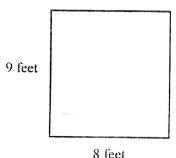


- A. The perimeter is less than 30 cm.
- B. The perimeter is between 30 cm and 40 cm.
- C. The perimeter is between 40 cm and 50 cm.
- D. The perimeter is more than 50 cm.



- A. 500 feet
- B. 650 feet
- C. 800 feet
- D. 1,000 feet

4. What is the perimeter of the figure?

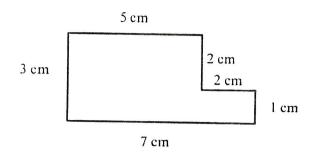


- A. 17 feet
- B. 34 feet
- C. 72 feet
- D. 106 feet



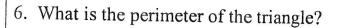


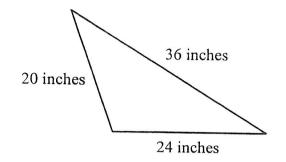
5. What is the perimeter of the polygon?





- B. 17 cm
- C. 20 cm
- D. 15 cm





- A. 70 inches
- B. 76 inches
- C. 80 inches
- D. 86 inches



7. A square pen is built that is 15.5 meters on each side. How many meters of fencing are needed to enclose the pen?

8. If the length of a rectangle is 45 centimeters and the width is 7 centimeters, what is the perimeter of the rectangle?

- A. 31.0 m
- B. 62.0 m
- C. 82.0 m
- D. 240.24 m

- A. 52 centimeters
- B. 97 centimeters
- C. 104 centimeters
- D. 315 centimeters



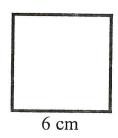
## Area of Squares and Rectangles

Area is how much space a figure or shape takes up. It is always measured in square units (units<sup>2</sup>)

#### Finding the area of a square:

To find the area of a square, you multiply the length times the width.  $(l \times w)$ 

Use  $l \times w$ 



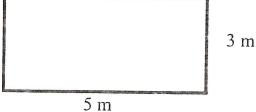
\_\_\_\_ × \_\_\_\_ length widih

Area = \_\_\_\_\_ cm



#### Finding the area of a rectangle:

Use  $l \times w$ 

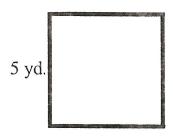


length width

 $Area = __ m^2$ 

#### Find the area of each figure. Remember to use square units.

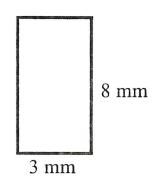




7 in.

Area =

Area =



14 ft. 7 ft.

Area =

Area = \_\_\_\_\_

A square has a side that measures 12 inches. What is its area?

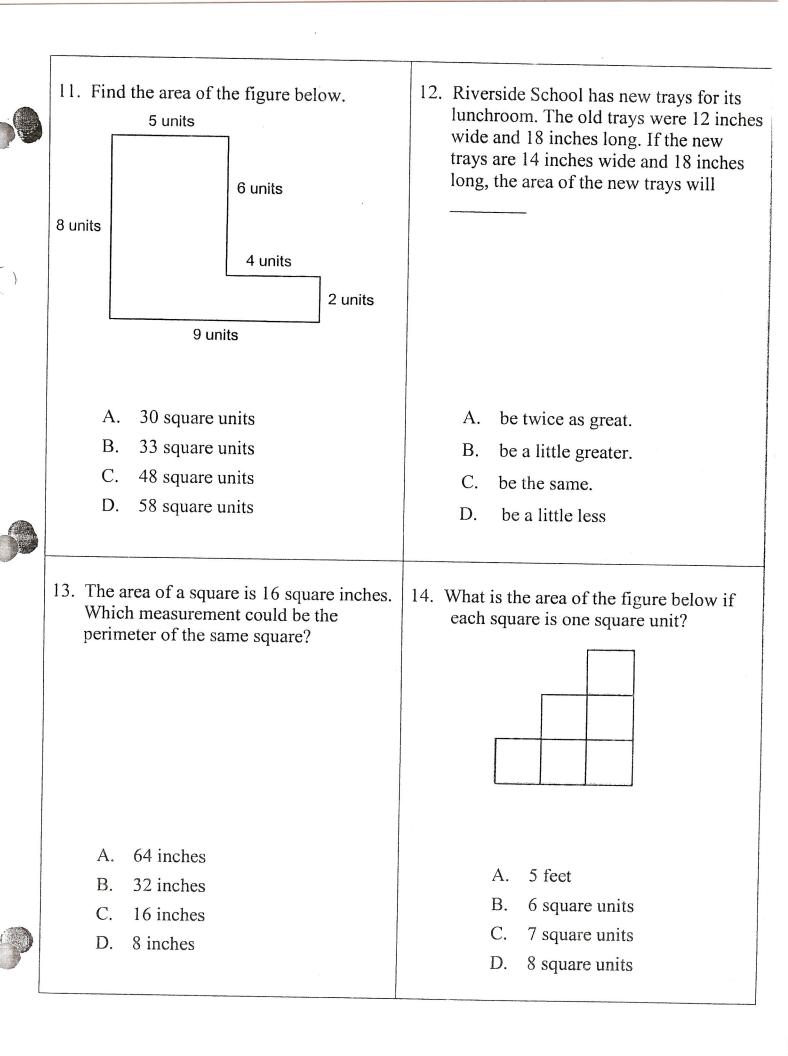
A rectangle has a length of 9 mm and a width of 4 mm. What is the area of this rectangle?



Area = \_\_\_\_\_

Area =

|   | 7. What is the area inside the dotted line?                                                                                | 8. What is the area of the rectangle?                                                                      |  |  |
|---|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--|--|
|   |                                                                                                                            | 8 cm                                                                                                       |  |  |
|   |                                                                                                                            | 2 cm 2 cm                                                                                                  |  |  |
| ( |                                                                                                                            | 8 cm                                                                                                       |  |  |
|   | <ul> <li>A. 20 square units</li> <li>B. 25 square units</li> <li>C. 30 square units</li> <li>D. 50 square units</li> </ul> | <ul><li>A. 16 square cm</li><li>B. 20 square cm</li><li>C. 64 square cm</li><li>D. 256 square cm</li></ul> |  |  |
|   | 9. Which figure has a perimeter that is smaller than its area?  1 in.  A. 8 in.                                            | 10. The area of a square is 25 square feet. What is the square's perimeter?                                |  |  |
|   | 2 in. B. 5 in.                                                                                                             |                                                                                                            |  |  |
|   | 3 in. C. 4 in.                                                                                                             | 3                                                                                                          |  |  |
|   |                                                                                                                            | A. 5 feet                                                                                                  |  |  |
|   |                                                                                                                            | B. 10 feet                                                                                                 |  |  |
|   | 5 in.                                                                                                                      | C. 20 feet                                                                                                 |  |  |
|   |                                                                                                                            | D. 25 feet                                                                                                 |  |  |
|   | D. 5 in.                                                                                                                   |                                                                                                            |  |  |



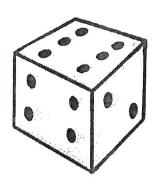
# Solid Figures

| Rectangular<br>Prism |   | rectangular faces  vertices  edges       |
|----------------------|---|------------------------------------------|
| Cylinder             |   | circular facesverticescurved edges       |
| Cone                 | h | circular faceverticescurved edge         |
| Square<br>Pyramid    |   | square facetriangular facesedgesvertices |
| Cube                 |   | square facesedgesvertices                |

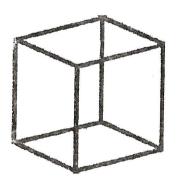


### Parts of Solid Figures

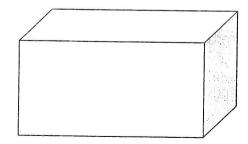
Face -- A flat surface of a solid figure

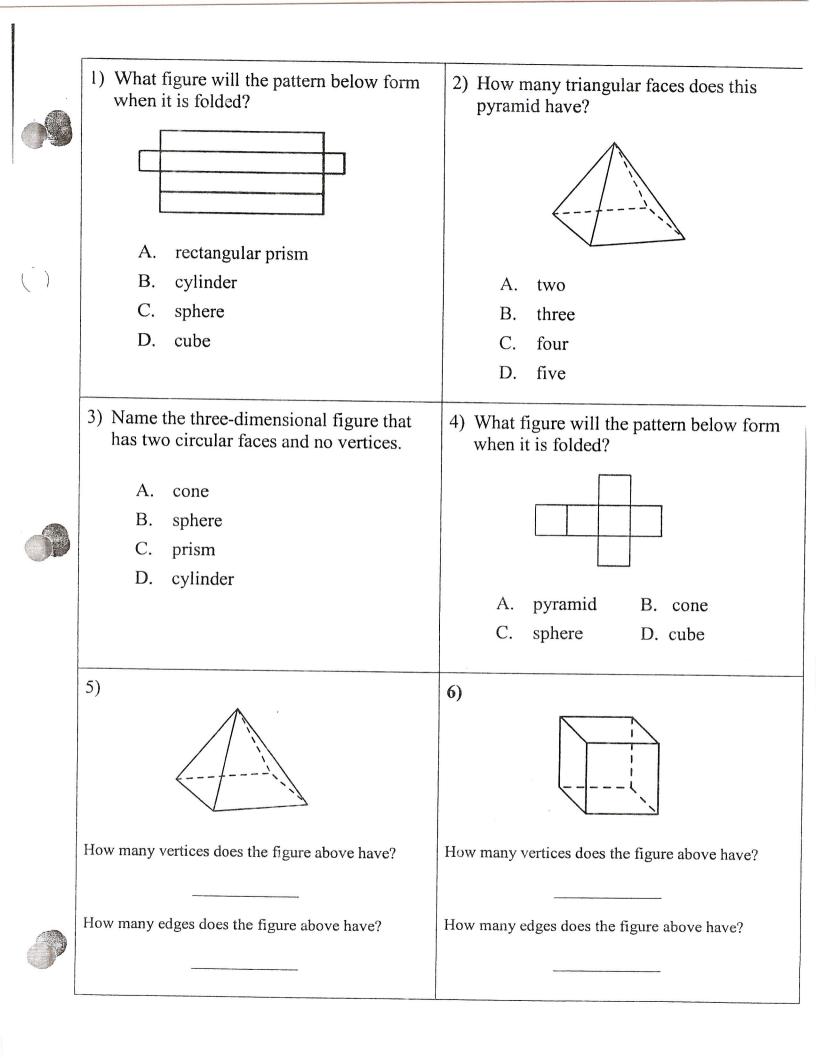


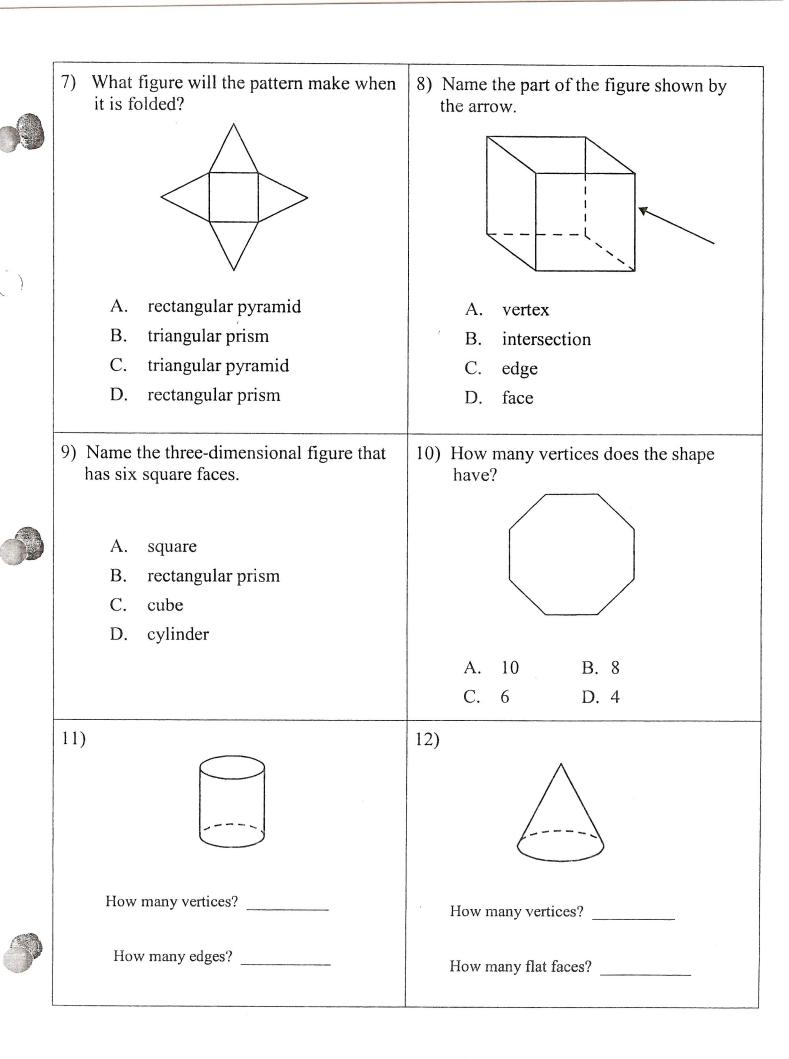
<u>Edge</u> – The line segment where two faces of a solid figure meet.



<u>Vertex</u> – The corner points of a solid figure.







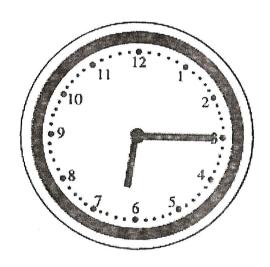
### Elapsed Time



Calculating elapsed time is an <u>important</u> skill. You will find as you grow older that you will need this skill quite often to manage all of the activities in your day. The method we will use for calculating elapsed time is the "count-on" method, where you count the hours and minutes on a real or imaginary clock face.

## **How to Calculate Elapsed Time**

**Problem:** Martha wakes up at 6:15 a.m. She must be ready to leave for school at 8:45 a.m. How much time does she have to get ready for school?



1. Count the hours first. Start from the beginning time of 6:15. From 6:15 to 7:15 is one hour. From 7:15 to 8:15 is another hour.

\_\_\_\_\_hours

2. Now count the minutes from 8:15 until 8:45.

minutes

So Martha has \_\_\_\_\_ hours and \_\_\_\_ minutes to get ready for school.

### Now you try. Find the elapsed time in each problem.



1) Zhang read a book from 10:06 in the morning until 3:29 in the afternoon. How much time passed while Zhang was reading?

2) Luis gets on the bus every morning at 6:42 a.m. If he gets off the bus at 7:28 a.m., how many minutes is his bus ride?

A. 5 hours 35 minutes

B. 5 hours 29 minutes

C. 5 hours 23 minutes

D. 4 hours 43 minutes

A. 18 minutes

B. 28 minutes

C. 36 minutes

D. 46 minutes



3) Kendra started her homework at 4:57 p.m. She finished her homework 15 minutes later. Which clock shows at what time Kendra completed her homework?

A.



В.



C.



D.



4) Chita drove 7 hours and 35 minutes to reach her friend's ranch. How many minutes did she travel?

A. 420 minutes

B. 455 minutes

C. 465 minutes

D. 470 minutes



# Types of Triangles

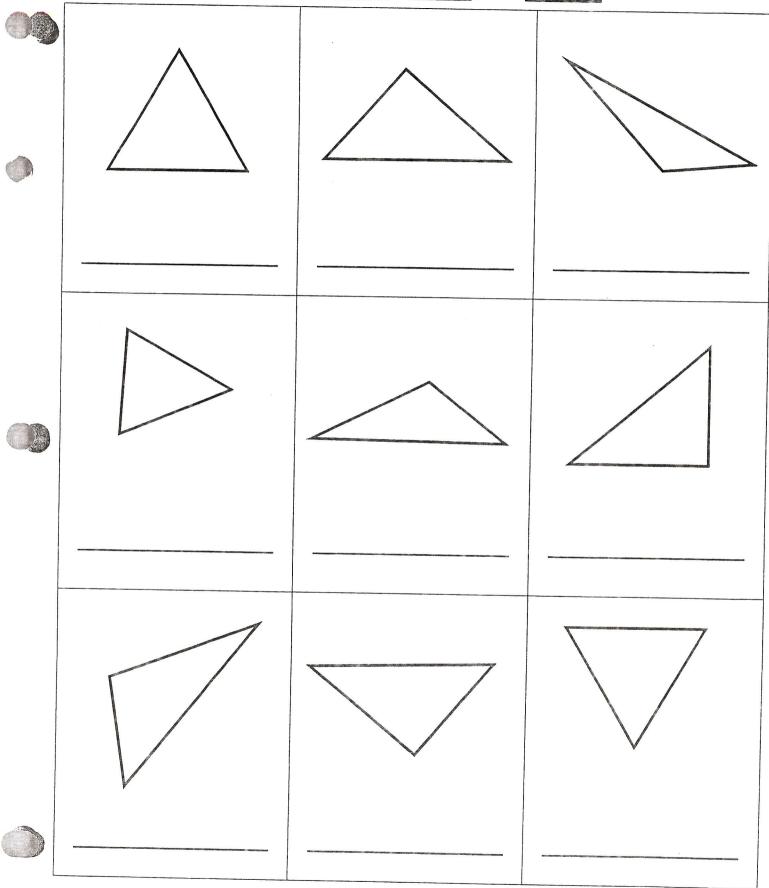


There are three types of triangles you need to know:

| Right Triangle     | Has<br>a <i>right</i><br>angle.   |
|--------------------|-----------------------------------|
| Acute Triangle     | Has <u>all acute</u> angles.      |
| Obtuse<br>Triangle | Has<br>an <i>obtuse</i><br>angle. |



# Identify each triangle as <u>right</u>, <u>acute</u>, or <u>obtuse</u>.





- 1) The angles of a triangle measure 90°, 45°, and 45°. What type of a triangle is this?
- 2) Marcus has drawn an obtuse triangle on his paper. Which of the following could be the measurements of the triangle he has drawn?

A) 60°, 60°, 60°

A) Acute B) Obtuse

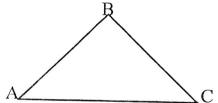
B) 45°, 60°, 75°

C) Right

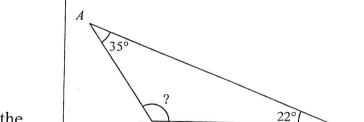
C) 40°, 90°, 50

D) Left

- D) 30°, 120°, 30°
- 3) Look at the triangle shown below.



4) What is the measure of  $\angle ABC$ ?



- Which of the following could be the measure for ∠ABC?
- A. 123°
- B.103°

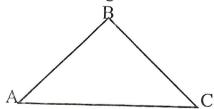
C. 90°

A. 30°

D. 105°

B. 44°

- C. 93° D.33°
- 5) Look at the triangle shown below.



6) Maria has drawn an acute triangle on her paper. Which of the following could be the measurements of the triangle she has drawn?

Which of the following could be the measure for \( \angle BCA? \)

B. 90°

A) 30°, 30°, 120°

A. 30°

B) 45°, 45°, 90°

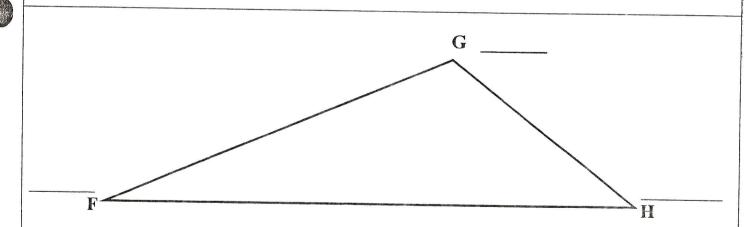
C) 40°, 90°, 50

- C. 97°
- D. 105°

- D) 65°, 85°, 30°

A C

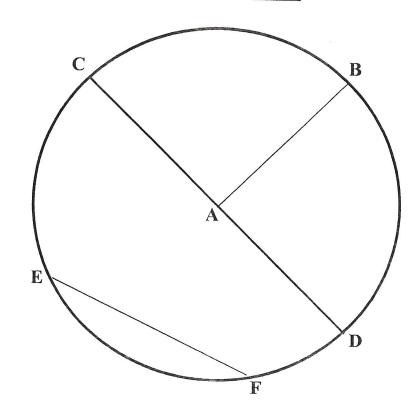
Write the measurements for the angles:



Write the measurements for the angles:

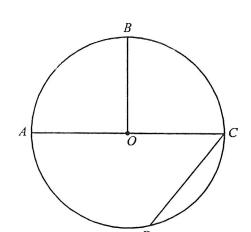
# Circles

## You need to know the following parts of a circle:



| Circumference | Blue   | The distance <u>around</u> a circle.  (Equal to about 3 times the diameter.)                              |
|---------------|--------|-----------------------------------------------------------------------------------------------------------|
| Diameter      | Pink   | A line passing through the <u>center</u> of a circle.  (Equal to twice the radius.)                       |
| Radius        | Green  | A line segment from the center of the circle to the outside edge of the circle  (Equal to ½ the diameter) |
| Chord         | Yellow | A line segment passing through any part of a circle. Each end must touch the outside of the circle.       |

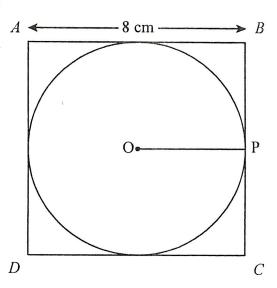
| 1)                                                                                          |                                                                                           |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| C B D                                                                                       | H G                                                                                       |
| Name line segment AB:                                                                       | Name line segment HJ :                                                                    |
| Name line segment CD :                                                                      | Name line segment FG:                                                                     |
| 5 cm                                                                                        | 12 mm                                                                                     |
| What is the diameter of this circle? cm                                                     | What is the radius of this circle? mm                                                     |
| What would be a good estimate of the circumference?                                         | What would be a good estimate of the circumference?                                       |
| 5)                                                                                          | 6)                                                                                        |
| What would be a reasonable diameter for a circle with a circumference of 18 inches?  inches | What would be a reasonable radius for a circle with a circumference of 24 meters?  meters |



Which is a radius of the circle?

- A.  $\overline{AB}$
- B.  $\overline{AC}$
- C.  $\overline{BO}$
- D.  $\overline{CD}$

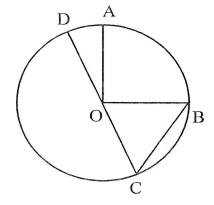
8)



Which could be the measure of OP?

- A. 8 cm
- B. 6 cm
- C. 4 cm
- D. 2 cm

9) How many chords does the circle shown below have?

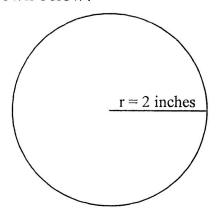


- A. 5
- B. 4
- C. 3
- D. 2

10) If a circle has a radius of 3 inches, what is its approximate circumference?

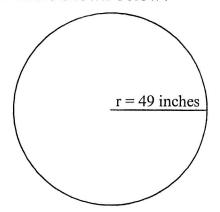
- A. 6 inches
- B. 9 inches
- C. 18 inches
- D. 29 inches

11) What is the diameter of the circle shown below?



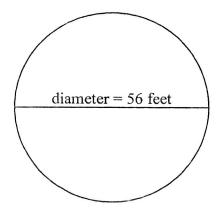
- A. 1 inches
- B. 2 inches
- C. 4 inches
- D. 6 inches

12) What is the approximate circumference of the circle shown below?



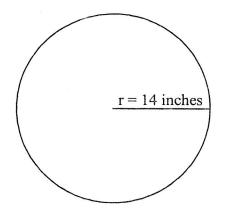
- A. 49 inches
- B. 98 inches
- C. 147 inches
- D. 294 inches

13) What is the radius and approximate circumference of the circle shown below?



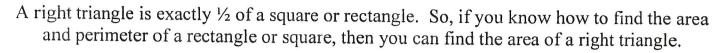
- A. Radius = 168 feet, Circumference = 28
- B. Radius = 28 feet; Circumference = 168
- C. Radius = 56 feet; Circumference = 28
- D. Radius =28 feet; Circumference=56

14) What is the diameter of the circle shown below?



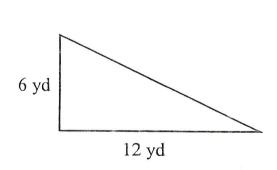
- A. 7 square inches
- B. 14 square inches
- C. 28 square inches
- D. 42 square inches

# Area of Right Triangles



The formula is:  $\frac{base \times height}{2}$  base base base base

### Example 1: (With diagram)



 $\frac{\times}{2} = \frac{}{2} = \frac{}{}$ Area =

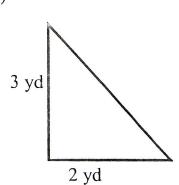
#### Example 1: (Without diagram)

A right triangle has a base 3 inches long and a height of 4 inches. What is the area of this triangle?

base height  $\frac{\times}{2} = \frac{}{2} = \frac{}{2}$ Area =

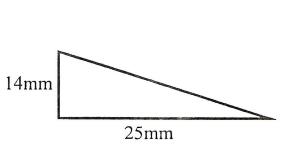
Find the area of each triangle.

1)



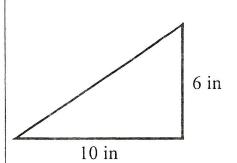
Area = \_\_\_\_\_

2)



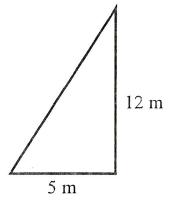
Area = \_\_\_\_\_

3)



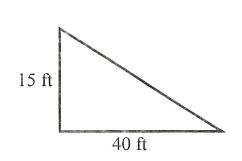
Area = \_\_\_\_\_

4)



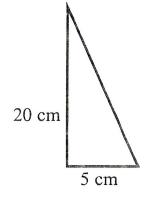
Area = \_\_\_\_\_

5)

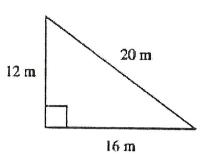


Area = \_\_\_\_\_

6)



Area = \_\_\_\_\_



Find the area of the triangle.

- A.  $48 \text{ m}^2$
- B.  $96 \text{ m}^2$
- C.  $160 \text{ m}^2$
- D.  $192 \text{ m}^2$

8)

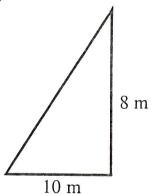
What would be the area of a triangle with a height of 12 mm and a base of 6 mm?

- A.  $6 \text{ mm}^2$
- B.  $18 \text{ mm}^2$
- C.  $36 \text{ mm}^2$
- D.  $72 \text{ mm}^2$

9)

What would be the area of a triangle with a base of 15 in. and a height of 6 in.?

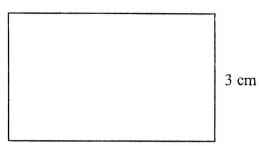
10)



- A.  $9 \text{ in}^2$
- B.  $21 \text{ in}^2$
- C.  $45 \text{ in}^2$
- D. 90 in<sup>2</sup>

- A.  $2 \text{ m}^2$
- B.  $18 \text{ m}^2$
- C.  $40 \text{ m}^2$
- D.  $80 \text{ m}^2$

#### Find the area of the rectangle below.

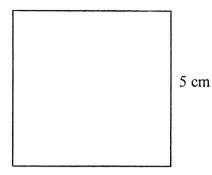


5 cm

- 8 square centimeters A.
- 15 square centimeters В.
- C. 16 square centimeters
- 25 square centimeters D.

12)

#### Find the perimeter of the square below.



5 cm

- 9 cm A.
- B. 10 cm
- 20 cm C.
- 45 cm D.



13)

If the length of a rectangle is 45 centimeters and the width is 7 centimeters, what is the perimeter of the rectangle?

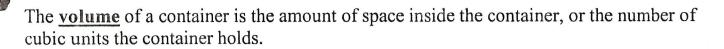
14)

What would be the area of a triangle with a base of 22 yd. and a height of 12 yd.?

- 52 centimeters Α.
- B. 97 centimeters
- 104 centimeters C.
- D. 315 centimeters

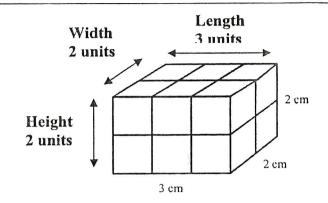
- $10 \text{ yd}^2$
- $34 \text{ yd}^2$ В.
- C. 132yd<sup>2</sup>
- D.  $264 \text{ yd}^2$

# VOLUME



The formula is: 
$$l \times w \times h$$

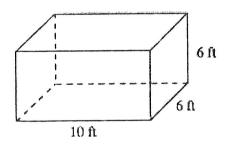
(length × width × height)



Volume is measured in *cubic units* (units<sup>3</sup>).

Volume:

#### Example 1: (With diagram)



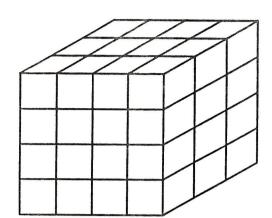
$$\frac{\phantom{a}}{\text{length}} \times \frac{\phantom{a}}{\text{width}} \times \frac{\phantom{a}}{\text{height}} = \underline{\phantom{a}}$$

## Example 2: (Without diagram)

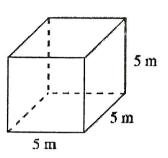
A rectangular prism has a length of 4 meters, a width of 2 meters, and a height of 3 meters. What is the volume?

# Find the volume of each figure.

1)



2)

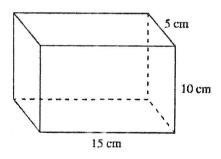


| Volume = |
|----------|
|----------|

Volume = \_\_\_\_\_

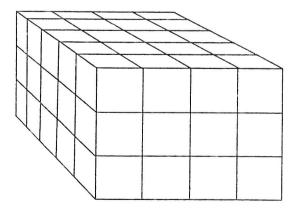
3)

Find the volume.



4)

What is the volume of this rectangular prism?



- A.  $30 \text{ cm}^3$
- B.  $65 \text{ cm}^3$
- C.  $125 \text{ cm}^3$
- D.  $750 \text{ cm}^3$

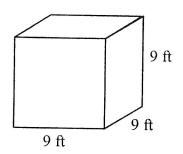
- A. 60 cubic units
- B. 76 cubic units
- C. 95 cubic units
- D. 106 cubic units

Samantha is helping her grandfather make a rectangular garden. The garden will be 18 feet by 25 feet. They want to cover the garden with a 6-inch layer of topsoil. How many cubic feet of topsoil should they order?

- A. 92 cubic feet
- B. 225 cubic feet
- C. 516 cubic feet
- D. 2,700 cubic feet

6)

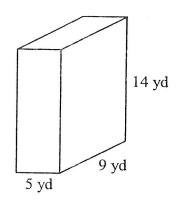
Find the volume of the figure below.



- A. 54 cubic feet
- B. 81 cubic feet
- C. 486 cubic feet
- D. 729 cubic feet

7)

Find the volume of the figure below.



- A. 23 cubic yards
- B. 56 cubic yards
- C. 482 cubic yards
- D. 630 cubic yards

8)

A box has a length of 50 mm, a height of 40 mm, and a width of 30 mm. What is the volume of the box?

- A. 60,000 mm<sup>3</sup>
- B. 6,000 mm<sup>3</sup>
- C. 6,000 mm<sup>2</sup>
- D. 60,000 mm<sup>2</sup>

| 9)                                                                                                                                                   | 10)                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Tina wants to paint the walls in her room. What does she need to know about her walls in order to buy enough paint?                                  | Stephen is building a fence to protect his garden. Which of the following does he need to know about his garden in order to buy enough fencing? |
|                                                                                                                                                      |                                                                                                                                                 |
| A) volume                                                                                                                                            | A) mass                                                                                                                                         |
| B) area<br>C) perimeter                                                                                                                              | B) area C) perimeter                                                                                                                            |
| D) temperature                                                                                                                                       | D) volume                                                                                                                                       |
| 11)                                                                                                                                                  | 12)                                                                                                                                             |
| Mrs. Corbin wants to buy a new TV set, and she wants to know if the box will fit in her trunk. Which measurement of her trunk does she need to know? | Mark is sewing a tablecloth for his mother table. What does he know about the table                                                             |
| <ul><li>A) perimeter</li><li>B) area</li><li>C) temperature</li><li>D) volume</li></ul>                                                              | A) height B) area C) perimeter D) volume                                                                                                        |
| 13)                                                                                                                                                  | 14)                                                                                                                                             |
| To buy the right size frame for a picture, which measurement do you need to know?                                                                    | Terrence needs to know how much water his aquarium can hold. Which measurement would best help him find the out?                                |
| A) area B) perimeter                                                                                                                                 | A) area<br>B) perimeter                                                                                                                         |
| C) length                                                                                                                                            | C) temperature                                                                                                                                  |
| D) width                                                                                                                                             | D) volume                                                                                                                                       |

(

