1. Determine if each statement is TRUE or FALSE.

A A right angle is 900.

B An acute angle is greater than 900.

C An obtuse angle is less than 900.

D A straight angle is 1800.

E An 890 angle is obtuse.

F A 910 angle is acute.

G A 1000 angle is right.

H A 990 angle is acute.

1. Find the measure of EACH angle marked with a “?”.

67o

?

?

72o

?

97o

54o

68o

?

84o

59o

1. Find the measure of EACH angle marked with a “?”.

?

55o

125o

72o

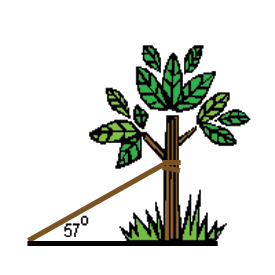
?

?

20o

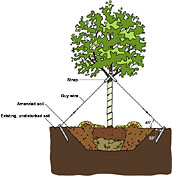
?

68o



48º

?



450

A

B

C

?

1. Fill in each blank with a word from the word bank below.
   1. Two angles whose sum is 1800 are called...\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ angles.
   2. Two angles whose sum is 900 are called...\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ angles.
   3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ triangle has two congruent sides and two congruent angles.
   4. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ triangle has 1 obtuse angle and 2 acute angles.
   5. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ triangle has 3 acute angles.
   6. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ triangle has NO equal sides and NO equal angles.

WORD BANK

straight

complementary

supplementary

conditional

right

acute

obtuse

equilateral

isosceles

scalene

1. Two angles are complementary. The first angle is 580, so the second angle is \_\_\_\_\_\_\_\_\_\_ .
2. Two angles are supplementary. The first angle is 340, so the second angle is \_\_\_\_\_\_\_\_\_\_ .
3. Two angles of a triangle are 1000 and 480. What is the third angle?
4. Three angles of a quadrilateral are 500, 600, and 1180. What is the fourth angle?
5. Determine if each figure IS (YES) or IS NOT (NO) a polygon.

1. Determine if each statement is TRUE or FALSE.

A Every rectangle is a square.

B Every square is both a rectangle and a

rhombus.

C Every rhombus is a square.

1. Determine if each figure IS (YES) or IS NOT (NO) a REGULAR polygon.
2. List the LETTERS for ALL of the names that can be given to each of the following shapes.

A Polygon B Quadrilateral

C Parallelogram D Rhombus

E Rectangle F Square

G Trapezoid

?

55o

125o

125o

(1) Each side is 4 feet long.

(2) baseball “diamond” (all right angles,

equal distance between bases)

?

(3) football field (all right angles)

(4)

(5)

(6)

1. Match each triangle with its correct pairs of names (angle name and side name).

A Acute equilateral triangle

B Acute isosceles triangle

C Acute scalene triangle

D Right equilateral triangle

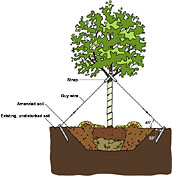
E Right isosceles triangle

F Right scalene triangle

G Obtuse equilateral triangle

H Obtuse isosceles triangle

I Obtuse scalene triangle

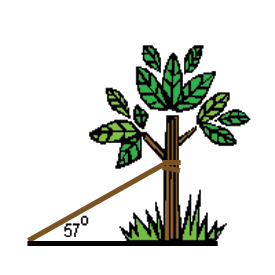


450

A

B

C



48º

(All angles are 600)

1. Label each choice as “P” for perimeter or “A” for area.

A the tile on a floor

B the fence for a backyard

C the border for a bulletin board

D the carpet covering a room

E the frame for a picture

F material covering a bulleting board

1. Brianna gave Mrs. Lafayette a box that was a regular hexagon. If the length of one side of the box is 28 inches, then what is the perimeter of the box??
2. Jade and Cassie are helping Hannah paint one wall in her bedroom. The wall is 18 ft long and 7 ft high. She needs enough paint to cover how much area?

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

7 ft

18ft

1. Michael, Josh, and Albert are helping Coach Fowler put up a fence around a rectangular yard that 50 feet wide and 40 feet long.

40 ft

50 ft

How many of fencing are needed?

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. The bases on a softball field form a square. The length of one side of the square is 60 ft. Coach Kirchoff hit a homerun; how far did she run when he ran around the square formed by the bases?

60 ft

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Matt, Nick, and Adrian are helping Matt’s dad put new tile in his home utility room. One side of his square room is 13 ft long.

13 ft

How much tile is needed?

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Krystal, Adrianna, and Arianna helped Mrs. Carrera paint a huge blue triangle, shown below, on the hall wall near her room.

8 ft

15 ft

17 ft

How much wall space

does this triangle cover?

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Abigail and Ariel are helping Ms. Morris cover the triangular bulleting board shown below with material.

8 ft

6 ft

7 ft

4 ft

How much material

is needed?

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Destiny and Kayla are helping Ms. Morris put border around a triangular bulletin board.

8 ft

6 ft

7 ft

4 ft

How much border is

needed?

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Melissa and Malaya are decorating a giant rectangular chocolate chip cookie. They will put icing along its edges. The cookie is 16 inches long and 9.5 inches wide.

16 in.

9.5 in.

How much icing

is needed?

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Ethan’s dad bought a rectangular rug for his room that has an area of 192 ft2. The rug is 12 ft wide.

12 ft

?

A = 192 ft2

How long is

the rug?

**P or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. David has a circular trampoline with a DIAMETER of 14 feet. What is the approximate AREA of the trampoline?

14 ft

r=?

j0354945

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Julie’s bicycle tire has a



26 in.

diameter of 26 inches.

Approximately how far will the

tire travel in 1 rotation?

**C or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. The tractor tire shown below traveled 12 feet in 1 revolution.



?

What is the approximate

diameter of the tractor tire?

**C or A? \_\_\_\_\_\_**

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Kevin’s dad is pouring a concrete slab in his back yard like the trapezoid shown below. Before the concrete poured, a wooden border must be put up.



18 feet

28 feet

?

13 feet

12 feet

What is the PERIMETER of this concrete slab?

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Look at the picture in the previous problem. What is the area of the concrete slab?

**Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**