

HONORS GEOMETRY  
NOTES 1.6 – Perimeter and Area

Name:  
Date:

PERIMETER: \_\_\_\_\_ AREA: \_\_\_\_\_

1. Side  $a$  of a triangle is 9 cm longer than side  $b$ . Side  $c$  is 1.5 times as long as side  $a$ .
2. Side  $a$  of a triangle is 4 ft shorter than side  $b$ . Side  $c$  is twice as long as side  $a$ .
3. The perimeter of the triangle in #1 is 75 cm. Find the length of each side.
4. The perimeter of the triangle in #2 is 16 ft. Find the length of each side.
5. Rectangle I is 4 m longer than it is wide. Rectangle II is 3 m wider than and twice as long as rectangle I. Write a formula for the perimeter of each.

6. The difference between the perimeters of the two rectangles in #5 is 24 m. Find the lengths of the sides of each rectangle

7. A rectangle and a square have the same width. The rectangle's length is 6m more than twice its width. Write a formula for the perimeter of each.

8. The sum of the two perimeters of the rectangle and the square in #7 is 62 m. Find the length of each side.

CIRCUMFERENCE: \_\_\_\_\_ AREA: \_\_\_\_\_

1. The circumference of a circle is 47.1 in. Find the area of the circle to the nearest  $\text{in}^2$ .

2. The circumference of a circle is 94.2 cm. Find the area of the circle to the nearest  $\text{cm}^2$ .