

## FINDING AREA AND SIDE LENGTHS OF SQUARES

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Due Date: \_\_\_\_\_

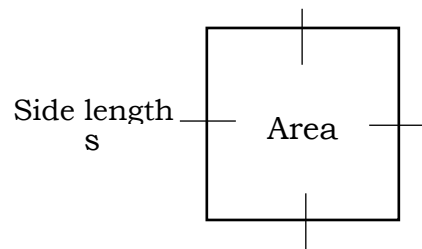
Family Member Signature: \_\_\_\_\_

### Objective:

To practice calculating the side length and area for a variety of squares.

### Necessary Information:

The area of a square is base multiplied by height. Since, the side lengths are equal, we write it like this:  $s \times s = s^2 = \text{Area}$



If we know the area of a square, we find the square root of the number. We write it like this:

$$\sqrt{\text{Area}} = \text{side length}$$

### Practice Section:

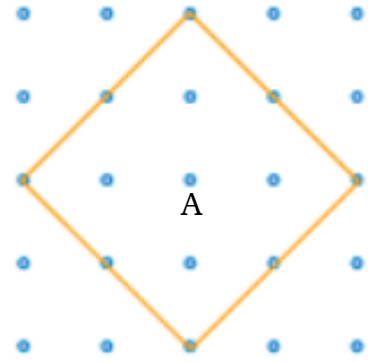
- 1) What is the area of a square with side length 8m?
- 2) What is the side length of a square with area 169km<sup>2</sup>?
- 3) Find the square of 9.
- 4) Find the square root of 144.
- 5)  $5^2 =$
- 6) \_\_\_\_\_ =  $\sqrt{36}$
- 7)  $\sqrt{400} =$
- 8) \_\_\_\_\_ =  $15^2$
- 9)  $\sqrt{1} + 4^2 =$
- 10) \_\_\_\_\_ =  $14^2 - \sqrt{100}$

11) Find the area and side length of each.

a)

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

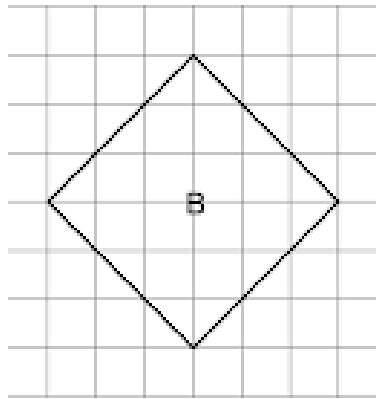
side = \_\_\_\_\_



b)

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

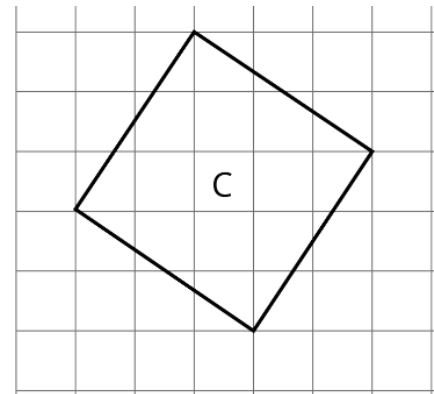
side = \_\_\_\_\_



c)

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

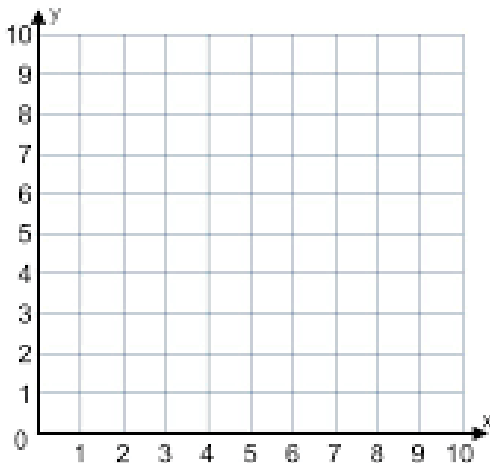
side = \_\_\_\_\_



**In Your Real World:**

With a family member, plot the given coordinates. Determine the area and side length of the square.

J(8,7)      K(8,2)      L(3,2)      M(3,7)



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

side = \_\_\_\_\_

