Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

**Perimeter and Area in the Coordinate Plane Review**

For each problem:

* Plot the ordered pairs in the coordinate plane given
* Find the perimeter of the figure
* Find the area of the figure
1. R (0, 5) S (5, 0) T (-5, 0)



Perimeter of RST:\_\_\_\_\_\_\_\_\_\_ Area of RST:\_\_\_\_\_\_\_\_\_

1. G (-2, 3) H (3, 3) I (-4, -2) J (1, -2)



Perimeter of GHIJ:\_\_\_\_\_\_\_\_\_\_ Area of GHIJ:\_\_\_\_\_\_\_\_\_

1. This figure is a four sided polygon. Before finding the area and perimeter find the missing point.

M (-3, 3) N (5, 3) O ( , ) P ( -3, -4)



Perimeter of MNOP:\_\_\_\_\_\_\_\_\_\_ Area of MNOP:\_\_\_\_\_\_\_\_\_

What was the fourth vertex?

How did you find the length for each side of the figure?

1. On a map, the library is located at (-6, 6), the city hall building is located at (4,6), and the high school is located at (4,4).

Represent the locations as points on a coordinate grid with a unit of 1 mile.

* What is the distance from the library to the city hall building? The distance from the city hall building to the high school? How do you know?
* What shape does connecting the three locations form? The city council is planning to place a city park in this area. How large is the area of the planned park?