Find Perimeter

You can use the coordinates of a figure to find its dimensions by finding the distance between two points. To find the distance between two points with the same *x*-coordinates, subtract their *y*-coordinates. To find the distance between two points with the same *y*-coordinates, subtract their *x*-coordinates.

Coordinate Plane Review
- Coordinate plane is a grid made from the crossing of the x-axis and y-axis.
- Coordinates make up an ordered pair (x, y).
- You walk (left or right) before you climb (up or down).

Guided Practice
Find the **length** of each side of the rectangle. Then, find the **perimeter**.

1.) L(3,3), M(3,5), N(7,5), P(7,3)

$2 + 4 + 2 + 4 =$

12 units

2.) P(3,0), Q(6,0), R(6,7), S(3,7)

$3 + 7 + 3 + 7 =$

20 units

3.) Mrs. Piel is building a fence around the perimeter of her yard for her dog. The coordinates of the vertices of the yard are (0,0), (0,10), (5,10), and (5,0). If each grid square has a length of 100 feet, **find the amount of wire**, in feet, needed for the fence. What is the **shape** of her yard?

$10 + 5 + 10 + 5 = 30$

✳ rectangle

3,000 ft of wire

Partner Talk
Without graphing the two points, what is the distance between point A and point B?

A(3,2) B (3,5)

3 units

Building on the Essential Question – How can coordinates help you to find the area of figures on the coordinate plane?

After you plot the points, use the dimensions to find the area.

Rate Yourself – Are you ready to move? **YES** or **NO**

↳ Rate yourself!