



Distance Between Points on a Coordinate Plane

PRACTICE PART 1:

- 1) Write the ordered pair next to each point on the graph →
- 2) Determine the length of each side of the rectangle.
If you have room, you may also label them on the graph.

$$\overline{AB} = \underline{5} \quad \overline{BC} = \underline{3}$$

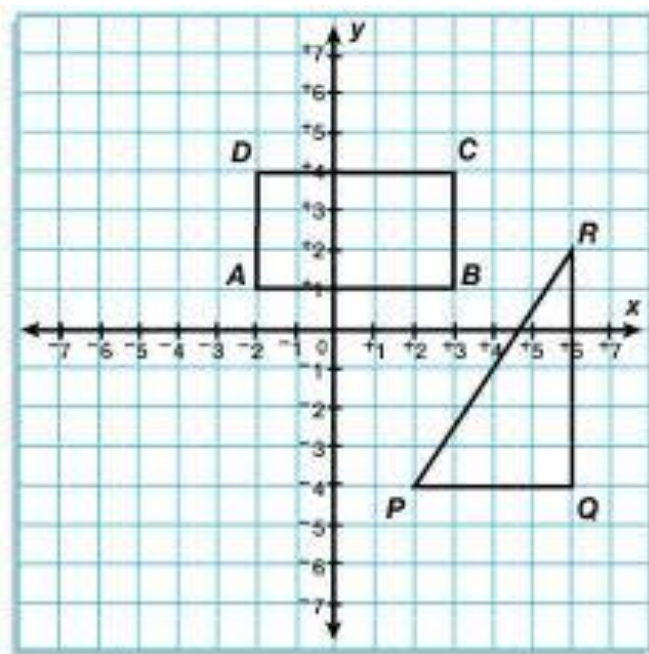
$$\overline{CD} = \underline{5} \quad \overline{DA} = \underline{3}$$

- 3) What is the perimeter of rectangle ABCD? 16 units

- 4) What is the area of rectangle ABCD? 15 sq. units

- 5) Determine the length of the triangle's base and height: $\overline{PQ} = \underline{4}$ $\overline{QR} = \underline{6}$

- 6) What is the area of $\triangle PQR$? 12 sq. units



PRACTICE PART 2:

Bugs Bunny's home is located at Point B, (-5, 4).
 Yosemite Sam's home is located at Point Y, (6, 4).
 Sylvester's home is located at Point S, (6, -2).
 Daffy Duck's home is located at Point D, (-5, -2).

- 7) Plot each character's home on the graph. →
Connect them in the order they are listed (also connect B & D). Label them B, Y, S, and D, as noted above.

- 8) What polygon was made? rectangle

- 9) Find the distance from each house (length of sides):

$$\overline{BY} = \underline{11} \quad \overline{YS} = \underline{6}$$

$$\overline{SD} = \underline{11} \quad \overline{DB} = \underline{6}$$

- 10) If they march in a parade that begins at Bugs' house, goes around the rectangle, and ends at Bugs' house, how many units did they travel?

