

1-7 • Guided Problem Solving

GPS Student Page 40, Exercise 15:

On a graph, the points $(4, -2)$, $(7, -2)$, $(9, -5)$, and $(2, -5)$ are connected in order to form a trapezoid. To the nearest tenth, what is its perimeter?

Understand

1. What are you being asked to do?

2. What information do you know?

Plan and Carry Out

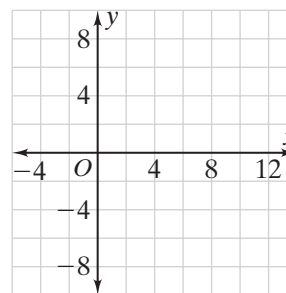
3. Plot the points on the graph.
4. How can you find the distance between points $(4, -2)$ and $(7, -2)$ and between the points $(2, -5)$ and $(9, -5)$?

5. What is the distance between $(4, -2)$ and $(7, -2)$? _____
 $(2, -5)$ and $(9, -5)$? _____

6. How can you find the distance between points $(4, -2)$ and $(2, -5)$ and between the points $(7, -2)$ and $(9, -5)$?

7. What is the distance between $(4, -2)$ and $(2, -5)$? _____
 $(7, -2)$ and $(9, -5)$? _____

8. Add the lengths of each side. What is the perimeter? _____



Check

9. Is every point plotted correctly to create the figure?

Solve Another Problem

10. Plot the following points on the grid at the right. Connect the points in order, connecting the last point to the first. What is the perimeter of the shape formed? $(-3, -3)$, $(3, -3)$, $(4, 2)$, $(-4, 2)$

