

**Lesson Summary**

To find the distance between points that lie on the same horizontal line or on the same vertical line, we can use the same strategy that we used to find the distance between points on the number line.

**Problem Set**

1. Find the length of the line segment with end points  $(7, 2)$  and  $(-4, 2)$ , and explain how you arrived at your solution.
2. Sarah and Jamal were learning partners in math class and were working independently. They each started at the point  $(-2, 5)$  and moved 3 units vertically in the plane. Each student arrived at a different end point. How is this possible? Explain and list the two different end points.
3. The length of a line segment is 13 units. One end point of the line segment is  $(-3, 7)$ . Find four points that could be the other end points of the line segment.