

# ACTIVITY 2

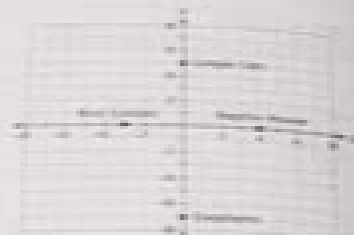
## Distance and Reflections in the Coordinate Plane

### Learning Targets:

- Find the distance between points in the coordinate plane using the coordinate grid or the slope triangle method.
- Understand, model, and explain problems involving distance, midpoint, and finding the distance between two points.
- Find the reflection of a point over the x-axis or y-axis.

### STANDARDS LEARNING STRATEGIES: Monitoring Understanding, Representing, Connecting, and Representing, Create Representations, Communication

Point A is a dog in the zoo. He has two goals: to go through the Red gate and to go to the Purple fence post. Each unit on the grid represents 10 yards.



### Example 1

How far must Ryan go to get from the Red gate to the Purple fence?

- Step 1:** Count the number of units between 0 and the Red gate. There are 2 units.
- Step 2:** Count the number of units between 0 and Purple fence. There are 4 units.
- Step 3:** Find the sum of these two distances.  
 $2 + 4 = 6$

**Solution:** Ryan must go 7 units. Since 1 unit = 10 yards, he must go 70 yards, or 70 yards.

### Example 2

#### Distance and Reflections in the Coordinate Plane

### Example 3

Point A is a dog in the zoo. He has two goals: to go through the Red gate and to go to the Purple fence post.

**Step 1:** Write the coordinates for each point.

Point A:  $(-2, 2)$  Point B:  $(4, 0)$

**Step 2:** Write both equations and solve for the distance between the two points.

$$d = \sqrt{(-2 - 4)^2 + (2 - 0)^2}$$

**Solution:** The distance between the Red gate and the Purple fence is 10 yards.

### Try These 1–5

Find the distance between each pair of points.

- $(-3, 7)$  and  $(4, 0)$
- $(-1, 2)$  and  $(4, 4)$
- $(-4, 6)$  and  $(-2, 4)$

- Students play in the zoo. The distance between each of the children on the back of the map. Each unit on the map shows approximately 1 mile.



**a.** How far apart are Children 1 and 2? Explain.

**b.** How far apart are Children 1 and 3? Explain.

You can use distance on a coordinate grid to find the **reflection** of a point. The reflection of a given point across the x-axis or y-axis is another point that is the same distance from the axis as the given point.

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