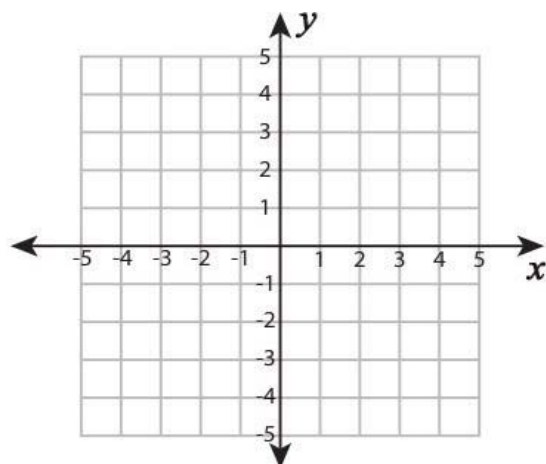# Step By Step Coordinate Plane Line Segments Measures Lesson

Question:

Bryant's hot air balloon is located at (-3, 4).

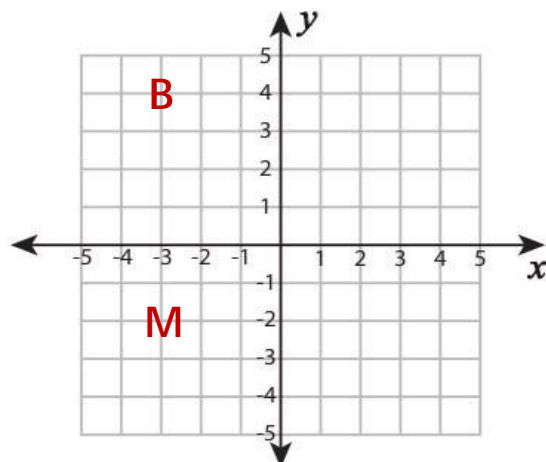Michelle's hot air balloon is located at (-3, -2).

If each unit on the coordinate plane is equivalent to one mile,

how far are Bryant's and Michelle's balloon apart?

Explanation:

Step 1) Locate the position of the 2 hot air balloons.
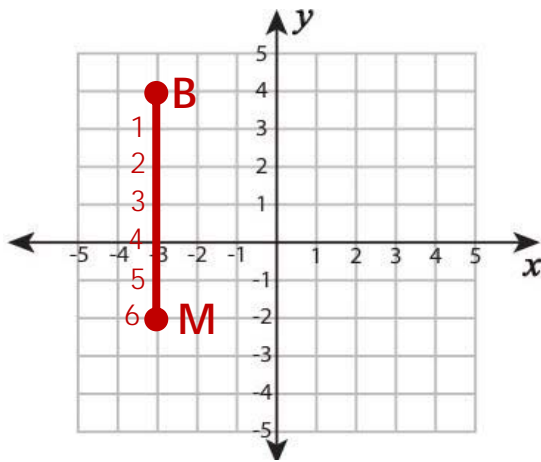
Let's plot their points on the coordinate plane.

Bryant's hot air balloon **(B)** = (-3, 4) x= -3, y = 4

Michelle's hot air balloon **(M)** = (-3, -2) x= -3, y = -2

Step 2) Find the length between the two points. You can simply do this by counting the number of box ends between the points.

We can see that we travel 6 units from point to point (balloon to balloon).

Since each unit is 1 mile (6 units x 1 mile) – 6 miles.

So there are 6 miles between the points (balloons).