Unit:	Coordinate Plane
Stude	nt Handout 5

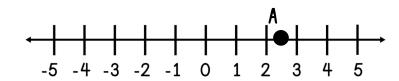
Name _		
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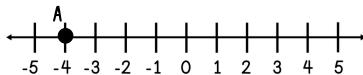
DISTANCE BETWEEN POINTS

Janice and Philip are asked to plot point B $4\frac{1}{2}$ units away from point A on the number lines shown. Where should they each plot point B? Will their points be in the same location?

JANICE

PHILIP



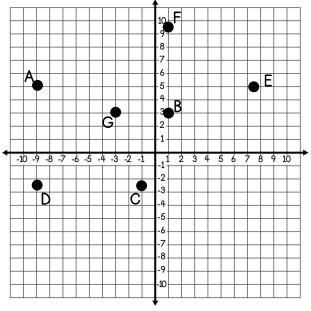


DISTANCE PETWEEN DOINTS

- If two points have the same _____ or ___ coordinate, then they lie on the same _____ of the coordinate plane.
- The distance between the two points can be ______ by counting using the scale.

1. Use the coordinate plane to determine the distances and the direction between the points below.

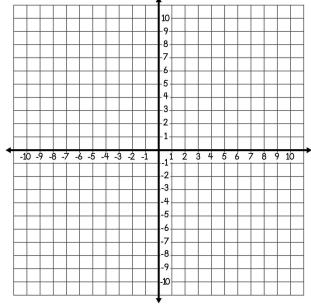
	DISTANCE	DIRECTION
A&D		
P&F		
CED		
E & A		
CEB		



- a. Which ordered pair best describes a point that is located 3 units to the left of the origin and 3 units above the x-axis?
- b. Point H is located 3 units away from point B. Sam says that (4, 3) could represent point H. Is Sam correct? Justify your thinking.

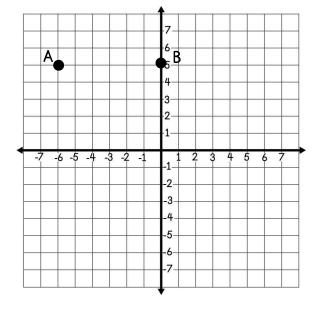
2. Use the coordinate plane to complete the table below. Determine which coordinate is the same and the distance between the two points.

POINT 1	POINT 2	COORDINATE IN COMMON	DISTANCE
(0, -6)	(0, 9)		
(8, -2)	(-4, -2)		
(3, 6)		y-coordinate	9 units
	(-8, -1)	x-coordinate	6 units
		y-coordinate	15 units

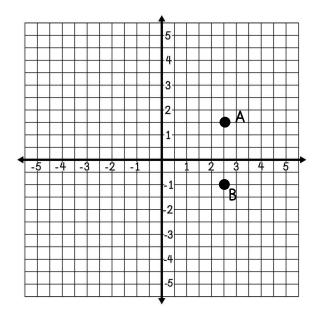


a. Giselle says that when the x-coordinates of two points are the same, you can find the distance between the two points by adding the absolute values of the y-coordinates. Use your findings above to determine if Giselle is correct or not. Explain your thinking.

3. Create a rectangle below with a perimeter of 20 units and an area of 24 units².



4. Create a rectangle below with a perimeter of 15 units and an area of 12.5 units².



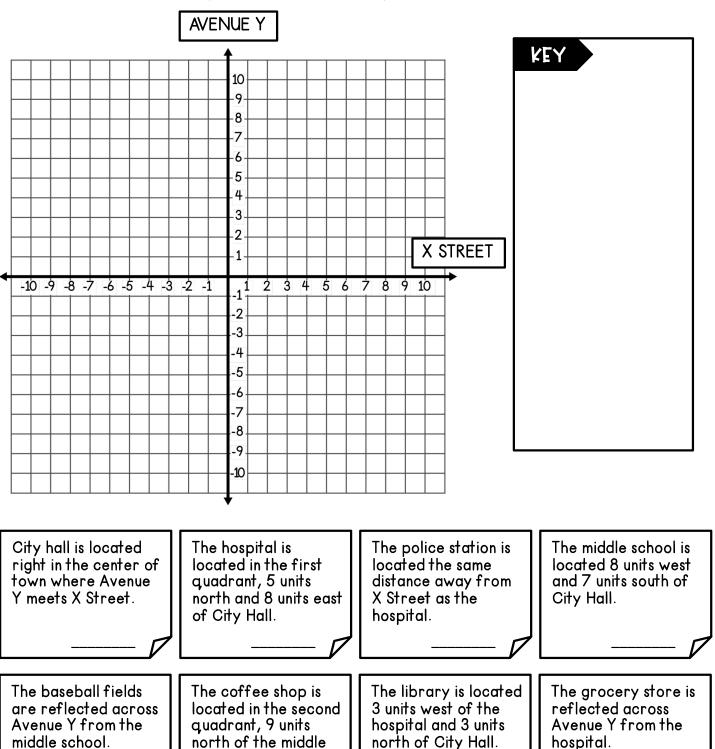
Summarize today's lesson:

Unit: Coordinate Plane Homework 5

Vame	
Date	Pd

DISTANCE BETWEEN POINTS

Mayor Gomez is trying to create a map for his town, Smallville. Use the clues below to place the different locations on the map and create a key to represent the various locations.



school, then go east

2 units.