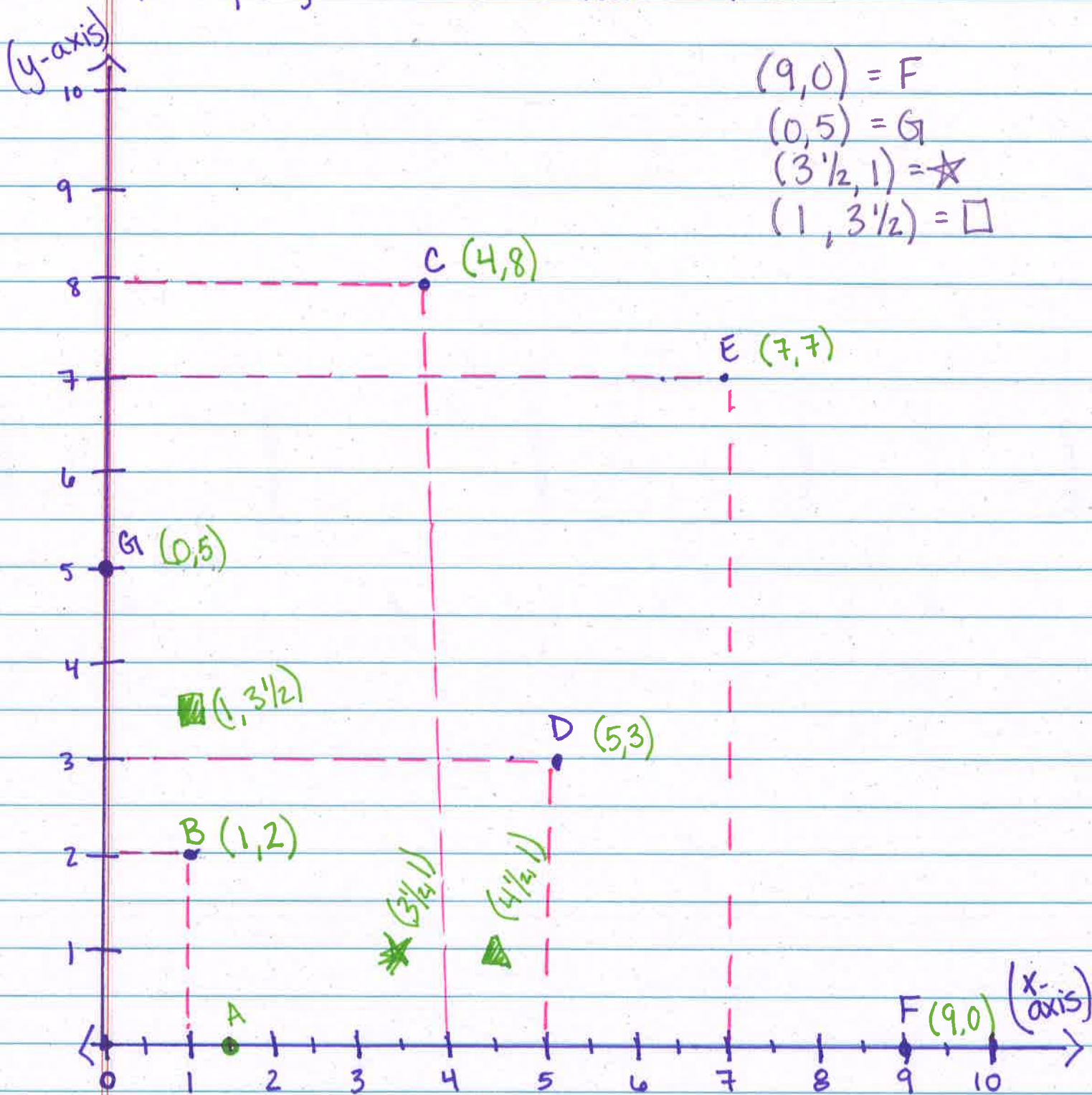


4.18.19

M6L2 - Construct a Coordinate System on a Plane

Point of Origin: zero on a number line.



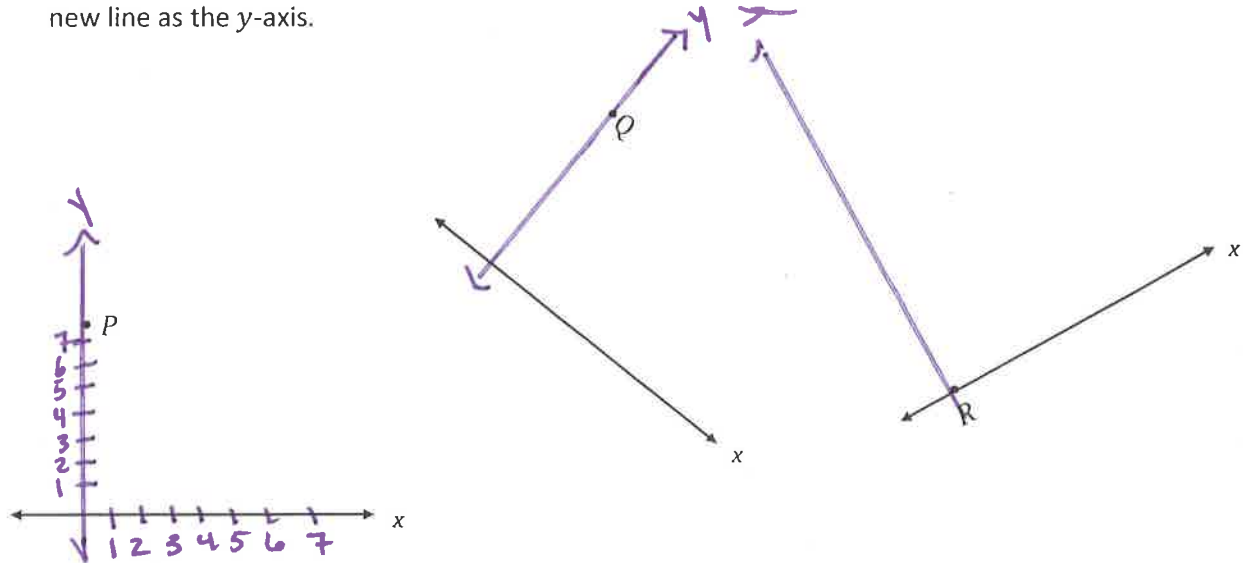
Coordinate Pair/Ordered Pair: two coordinates on a coordinate grid that give the location of a point (x, y)

Name Key

Date _____

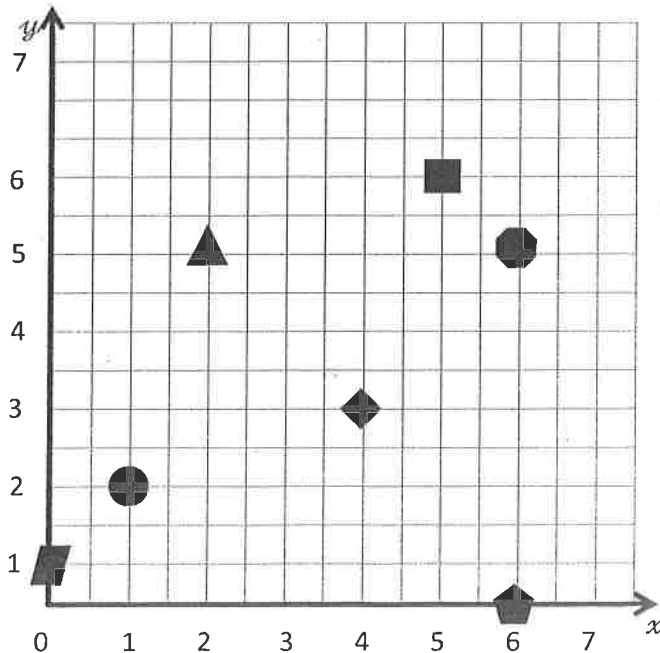
1.

- a. Use a set square to draw a line perpendicular to the x -axis through points P , Q , and R . Label the new line as the y -axis.



- a. Choose one of the sets of perpendicular lines above, and create a coordinate plane. Mark 7 units on each axis, and label them as whole numbers.

2. Use the coordinate plane to answer the following.



- a. Name the shape at each location.

x-coordinate	y-coordinate	Shape
2	5	triangle
1	2	circle
5	6	square
6	5	pentagon

- b. Which shape is 2 units from the y -axis?

triangle

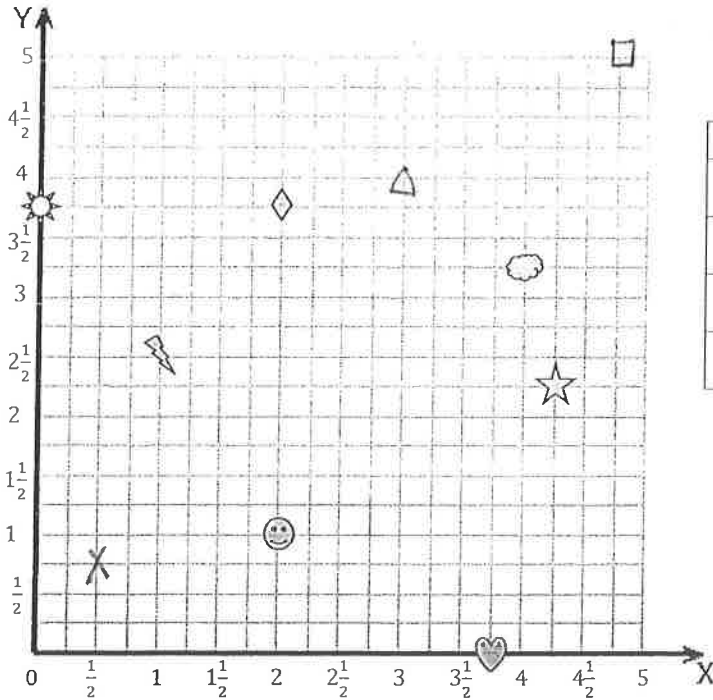
- c. Which shape has an x -coordinate of 0?

Pentagon

- d. Which shape is 4 units from the y -axis and 3 units from the x -axis?

rhombus (4,3)

3. Use the coordinate plane to answer the following.



a. Fill in the blanks.

Shape	x-coordinate	y-coordinate
Smiley Face	2	1
Diamond	2	$3\frac{3}{4}$
Sun	0	$3\frac{3}{4}$
Heart	$3\frac{3}{4}$	0

b. Name the shape whose x-coordinate is $\frac{1}{2}$ more than the value of the heart's x-coordinate.

Star

c. Plot a triangle at (3, 4).

d. Plot a square at $(4\frac{3}{4}, 5)$.

e. Plot an X at $(\frac{1}{2}, \frac{3}{4})$.

4. The pirate's treasure is buried at the X on the map. How could a coordinate plane make describing its location easier?

Exact location of where the x is based off a x-axis and y-axis

