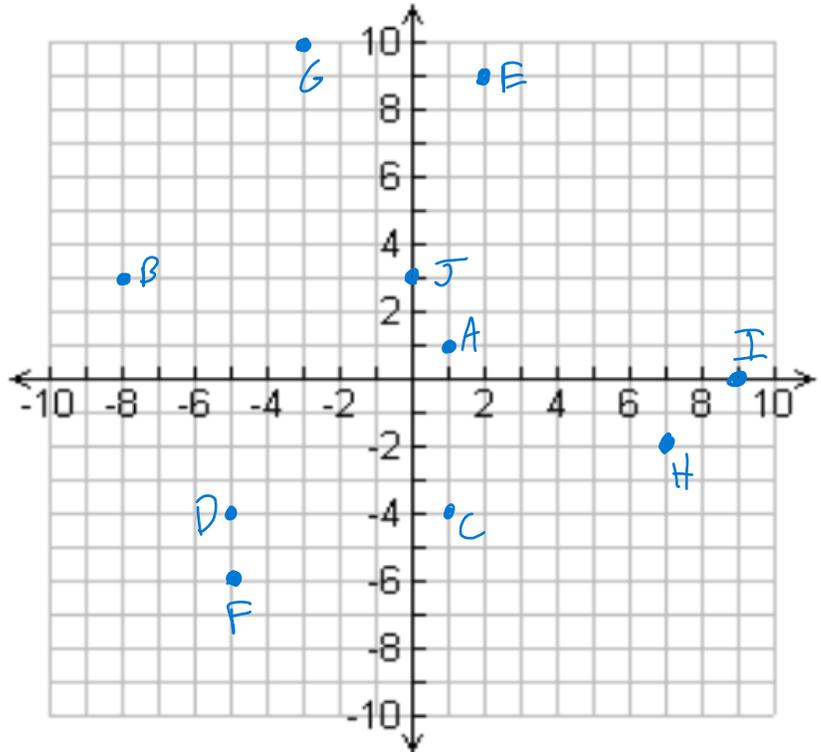


Lesson #1: The Coordinate Plane Homework

Question 1: Plot the points on the provided coordinate plane

- |            |            |
|------------|------------|
| A (1, 1)   | B (-8, 3)  |
| C (1, -4)  | D (-5, -4) |
| E (2, 9)   | F (-5, -6) |
| G (-3, 10) | H (7, -2)  |
| I (9, 0)   | J (0, 3)   |



Question 2: Plot and join the set of points in order. Join the last point to the first point to create a closed figure. Identify the figure then calculate its area in square units.

- D(1, 1), E(1, -2), F(-5, -2), G(-5, 1)

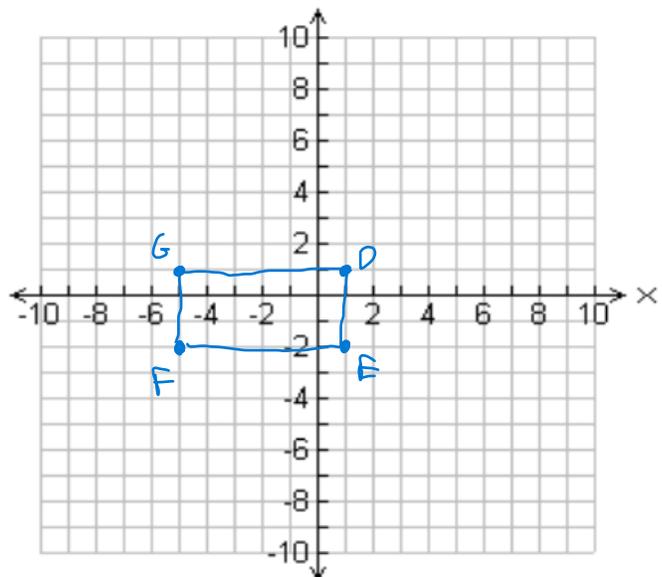
To figure out the length and width you simply need to count how many units are on each side once the figure has been plotted.

*l = 6 - count the blocks*

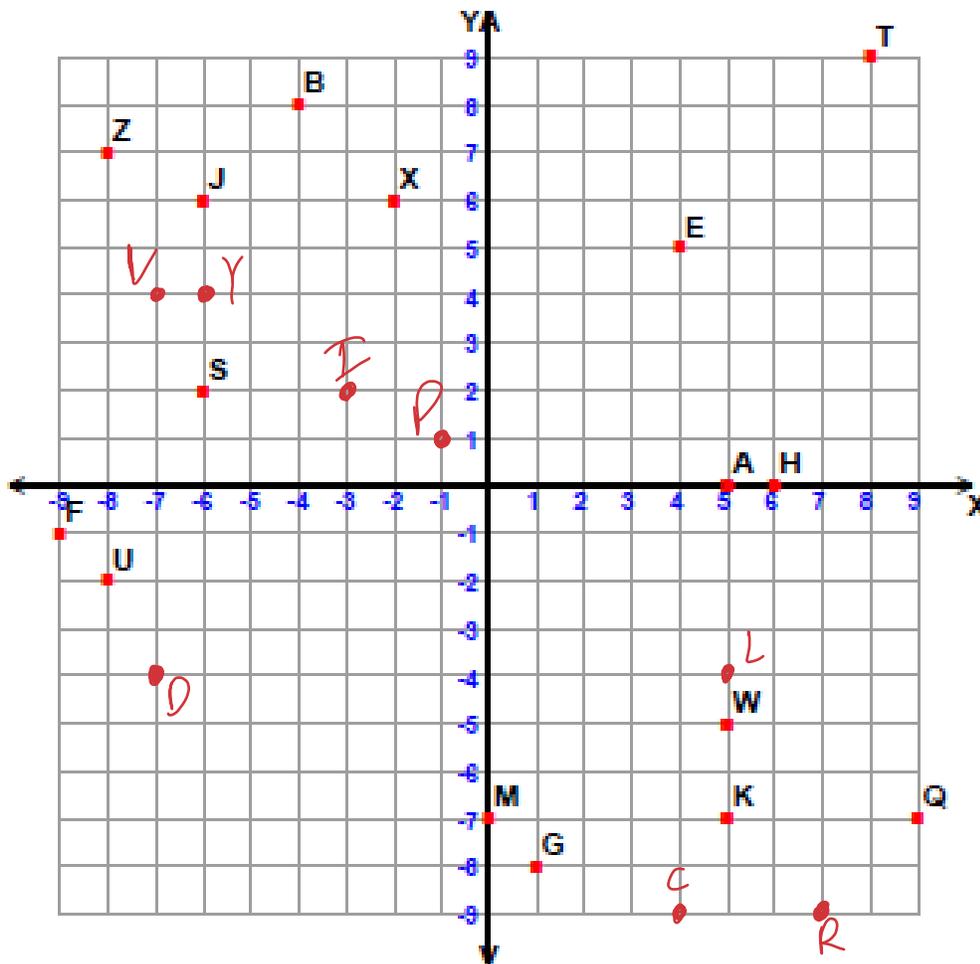
*w = 3 units*

$$A = (6)(3)$$

$$A = 18u^2$$



## Four Quadrant Ordered Pairs



Tell what point is located at each ordered pair.

- |                        |                        |                        |                        |
|------------------------|------------------------|------------------------|------------------------|
| 1) $(-2, +8)$ <u>X</u> | 3) $(+0, -7)$ <u>M</u> | 5) $(+5, -7)$ <u>K</u> | 7) $(-8, +8)$ <u>J</u> |
| 2) $(+9, -7)$ <u>Q</u> | 4) $(-8, +7)$ <u>Z</u> | 6) $(-4, +8)$ <u>B</u> | 8) $(+5, -5)$ <u>W</u> |

Write the ordered pair for each given point.

- |                                    |                                    |                                   |                                  |
|------------------------------------|------------------------------------|-----------------------------------|----------------------------------|
| 9) S <u><math>(-6, 2)</math></u>   | 11) U <u><math>(-8, -2)</math></u> | 13) G <u><math>(1, -8)</math></u> | 15) T <u><math>(8, 9)</math></u> |
| 10) F <u><math>(-9, -1)</math></u> | 12) H <u><math>(6, 0)</math></u>   | 14) E <u><math>(4, 5)</math></u>  | 16) A <u><math>(5, 0)</math></u> |

Plot the following points on the coordinate grid.

- |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|
| 17) P $(-1, +2)$ | 19) D $(-7, -4)$ | 21) Y $(-8, +4)$ | 23) L $(+5, -4)$ |
| 18) C $(+4, -9)$ | 20) I $(-3, +2)$ | 22) V $(-7, +4)$ | 24) R $(+7, -9)$ |