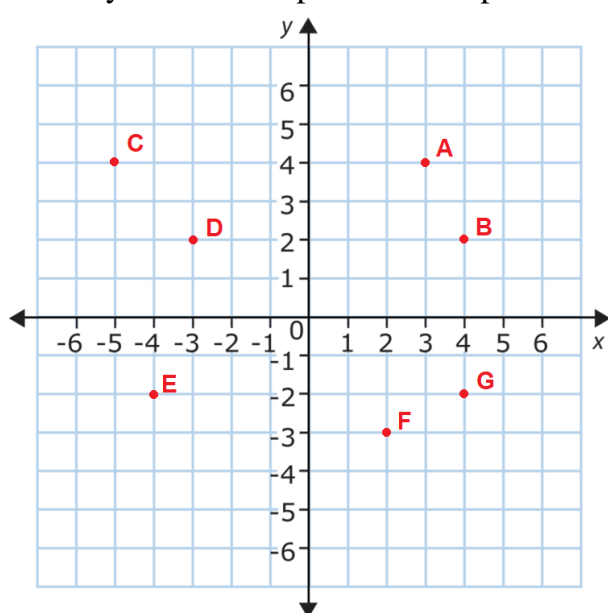


5.G.A.1 Plot Points on a Coordinate Plane

5.G.A.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.

- Choose right, left, up, or down to fill in the blanks.
 - To graph $(-5, 5)$, start at $(0, 0)$ and then go _____ to -5 and _____ to $+5$.
 - To graph $(4, -8)$, start at $(0, 0)$ and then go _____ to $+4$ and _____ to -8 .
 - To graph $(-2, -2)$, start at $(0, 0)$ and then go _____ to -2 and _____ to -2 .
- Identify the ordered pair for each point on the coordinate plane given below.



Solution:

A _____ B _____
 C _____ D _____
 E _____ F _____
 G _____

- Name the ordered pair that is described below.
 - Start from the origin. Move 2 units to the right and then 4 units down. _____
 - Start from the origin. Move 4 units to the left and then 3 units up. _____
 - Start from the origin. Move 5 units to the right and then 6 units up. _____
- Plot the points obtained in question 3 on the coordinate plane shown for question 2.
- True or False?
 - An ordered pair can never contain integers that are both positive. _____
 - An ordered pair can never contain a fraction nor decimals. _____
 - An ordered pair can contain a fraction and an integer. _____
- Give one difference of a coordinate plane and a number line.

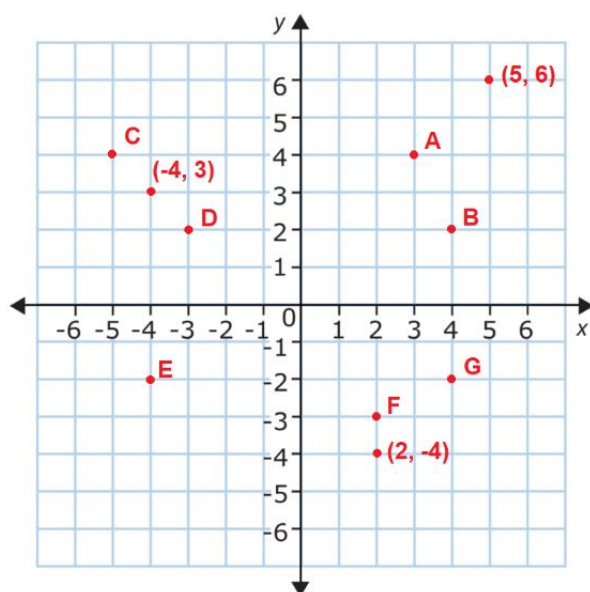
Solution:

5.G.A.1 Plot Points on a Coordinate Plane

Answer Key

5.G.A.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.

- Choose right, left, up, or down to fill in the blanks.
 - To graph $(-5, 5)$, start at $(0, 0)$ and then go left to -5 and up to $+5$.
 - To graph $(4, -8)$, start at $(0, 0)$ and then go right to $+4$ and down to -8 .
 - To graph $(-2, -2)$, start at $(0, 0)$ and then go left to -2 and down to -2 .
- Identify the ordered pair for each point on the coordinate plane given below.



Solution:

- | | |
|-------------------|------------------|
| A <u>(3, 4)</u> | B <u>(4, 2)</u> |
| C <u>(-5, 4)</u> | D <u>(-3, 2)</u> |
| E <u>(-4, -2)</u> | F <u>(2, -3)</u> |
| G <u>(4, -2)</u> | |

- Name the ordered pair that is described below.
 - Start from the origin. Move 2 units to the right and then 4 units down. (2, -4)
 - Start from the origin. Move 4 units to the left and then 3 units up. (-4, 3)
 - Start from the origin. Move 5 units to the right and then 6 units up. (5, 6)
- Plot the points obtained in question 3 on the coordinate plane shown for question 2.
- True or False?
 - An ordered pair can never contain integers that are both positive. False
 - An ordered pair can never contain a fraction nor decimals. False
 - An ordered pair can contain a fraction and an integer. True

- Give one difference of a coordinate plane and a number line. Answers vary.

Solution: A coordinate plane represents points on all quadrants while a number line cannot.