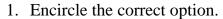
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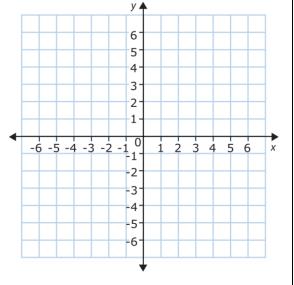
## 5.G.A.1 Graphing on a Coordinate Plane

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.



The point (-4, 5)

- a. lies in the 4<sup>th</sup> quadrant.
- b. lies on the y-axis.
- c. is an ordered pair.
- d. lies on the 3<sup>rd</sup> quadrant.
- 2. Use the coordinate plane shown below to answer the following questions.
  - a. Mark the origin.
  - b. Starting from the origin, move 3 units on the positive x-axis and 4 units on the negative y-axis. Mark the point reached as "C".
  - c. Reverse the coordinates of the point "C" and mark the new point obtained on the grid as "A".
  - d. Find the difference between the x-coordinates of C and A.
  - e. Which of the two points C and A is closer to the origin?
  - f. Add 2 units to each coordinate of C and mark the new point on the grid and label it as T.



- 3. What do we call the point where the x- and y-axis intersect?
- 4. The x coordinate is positive and the y coordinate is negative in quadrant \_\_\_\_\_
- 5. Write coordinates of any three points which lie on:
  - a. 2<sup>nd</sup> quadrant \_\_\_\_\_\_, \_\_\_\_\_,
  - b. 3<sup>rd</sup> quadrant \_\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - d. y-axis \_\_\_\_\_\_, \_\_\_\_\_,
- 6. Plot points S(2, 2), T(-3, 2), A(-3, -1), and R(2, -1) on the coordinate plane shown in question 2. What polygon is formed by joining STAR?

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## 5.G.A.1 Graphing on a Coordinate Plane

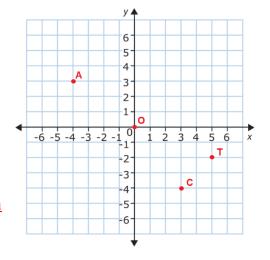
**Answer Key** 

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.

1. Encircle the correct option.

The point (-4, 5)

- a. lies in the 4<sup>th</sup> quadrant.
- b. lies on the y-axis.
- c. is an ordered pair.
  - d. lies on the 3<sup>rd</sup> quadrant.
- 2. Use the coordinate plane shown below to answer the following questions.
  - a. Mark the origin. Name it as "O".
  - b. Starting from the origin, move 3 units on the positive x-axis and 4 units on the negative y-axis. Mark the point reached as "C".
  - c. Reverse the coordinates of the point "C" and mark the new point obtained on the grid as "A".
  - d. Find the difference between the x-coordinates of C and A. 7 units
  - e. Which of the two points C and A is closer to the origin? both are of equal distance from the origin
  - f. Add 2 units to each coordinate of C and mark the new point on the grid and label it as T.



- 3. What do we call the point where the x- and y-axis intersect? <u>origin</u>
- 4. The x coordinate is positive and the y coordinate is negative in quadrant  $\underline{4}$ .
- 5. Write coordinates of any three points which lie on: Answers will vary.
  - a.  $2^{nd}$  quadrant (-1, 1), (-3, 8), (-2, 5)
  - b. 3<sup>rd</sup> quadrant (-1, -4), (-2, -4), (-2, -3)
  - c. x-axis (-3, 0), (1, 0), (5, 0)
  - d. y-axis (0, -3), (0, 2), (0, 10)
- 6. Plot points S(2, 2), T(-3, 2), A(-3, -1), and R(2, -1) on the coordinate plane shown in question 2. What polygon is formed by joining STAR?

rectangle