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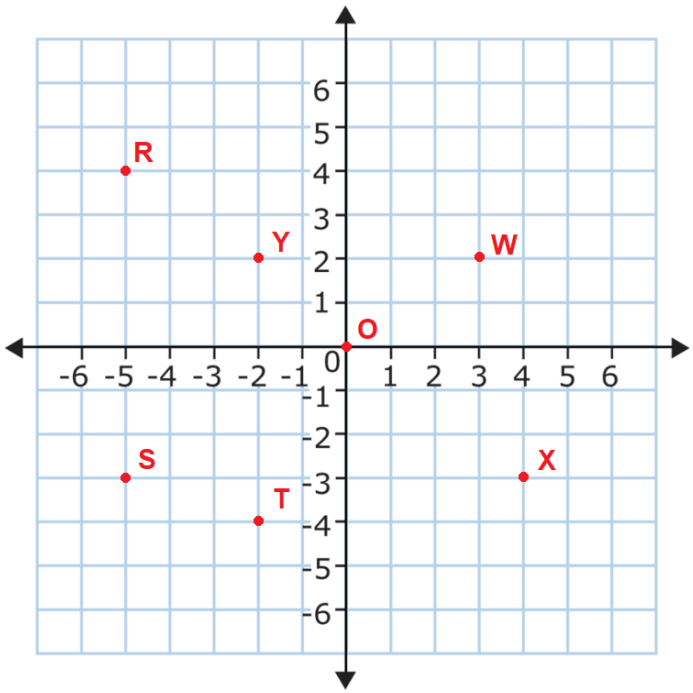
5.G.A.1 Understand the Coordinate Plane

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.

Study the graph below and answer the questions that follow.



1. Label the x-axis and the y-axis of the coordinate plane.
2. What is the coordinate of point O?

   _____
3. Write the coordinates of point W.

   _____
4. Which point is located at (-5, -3)?

   _____
5. What is the horizontal distance between point S and point X?

   _____
6. What is the vertical distance between point R and point S? _____
7. Write one point whose coordinates are both positive. _____
8. Write one point whose coordinates are both negative. _____
9. Which point has a positive x-coordinate and a negative y-coordinate? _____
10. From point T, move 6 in positive x direction and 4 units in negative y direction. Write the coordinates of the final position. _____
11. How many units away from the origin in positive y direction is point R? _____
12. Points Y and W have a horizontal distance of 5 units. True or False? _____
13. Write the coordinates of point Y. _____
14. Which point if vertically farthest from the origin? _____
15. Which point is horizontally farthest from the origin? _____

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Answer Key

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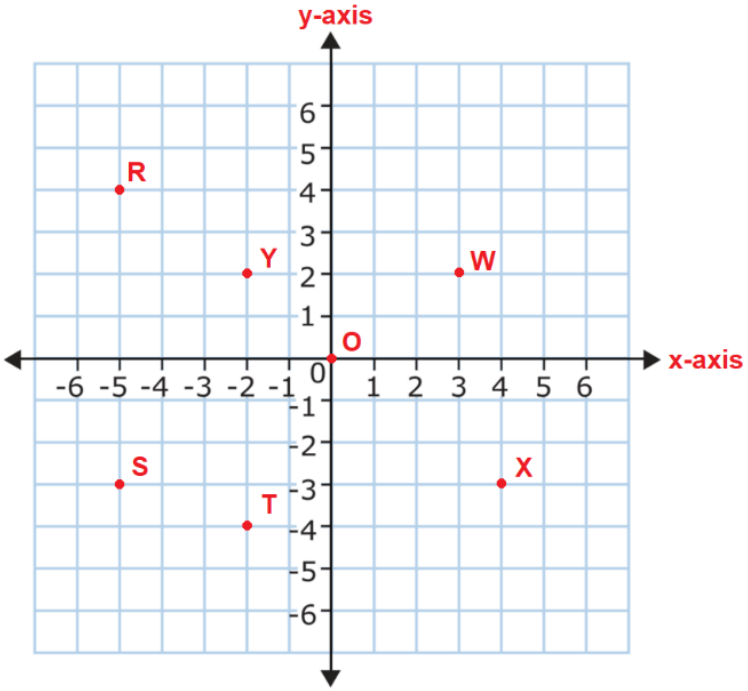

1. Label the x-axis and the y-axis of the coordinate plane.
2. What is the coordinate of point O? (0, 0)
3. Write the coordinates of point W. (3, 2)
4. Which point is located at (-5, -3)? point S
5. What is the horizontal distance between point S and point X? 9 units
6. What is the vertical distance between point R and point S? 7 units
7. Write one point whose coordinates are both positive. point W
8. Write one point whose coordinates are both negative. point S ; point T
9. Which point has a positive x-coordinate and a negative y-coordinate? point X
10. From point T, move 6 in positive x direction and 4 units in positive y direction. Write the coordinates of the final position. (4, 0)
11. How many units away from the origin in positive y direction is point R? 4 units
12. Points Y and W have a horizontal distance of 5 units. True or False? True
13. Write the coordinates of point Y. (-2, 2)
14. Which point(s) is (are) vertically farthest from the origin? both points R and T
15. Which point(s) is (are) horizontally farthest from the origin? both points R and S