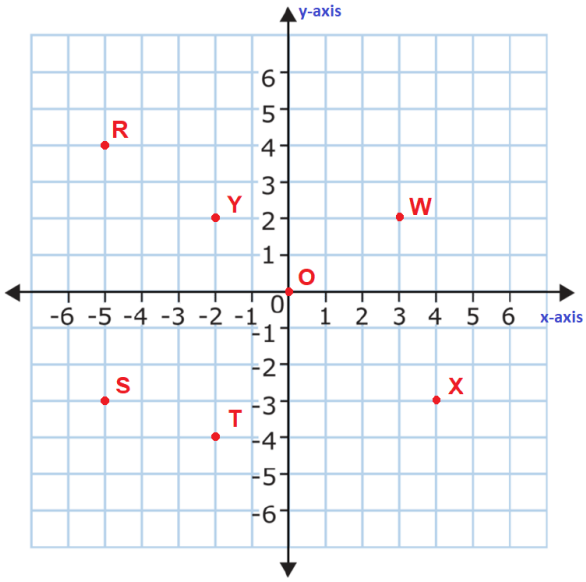
Understand the Coordinate Plane

Grade 5 Geometry Worksheet

Date:_____ Name:_____

LET'S MAKE LEARNING FUN

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. Which point is located at $(-2, -4)$?

   _____
4. Write the coordinates of point X.

   _____
5. What is the vertical distance between point Y and point T?

   _____
6. Write the coordinates of point R.

   _____
7. Which point(s) is (are) vertically farthest from the origin? _____
8. Which point(s) is (are) horizontally farthest from the origin? _____
9. What is the horizontal distance between point Y and point W? _____
10. From point T, move 5 units in positive x direction and 5 units in positive y direction. Write the coordinates of the final position. _____
11. Write one point whose coordinates are both negative. _____
12. Write one point whose coordinates are both positive. _____
13. Which point has a negative x-coordinate and a positive y-coordinate? _____
14. How many units away from the origin in positive y direction is point Y?

    _____
15. Points S and X have a horizontal distance of 5 units. True or False? _____

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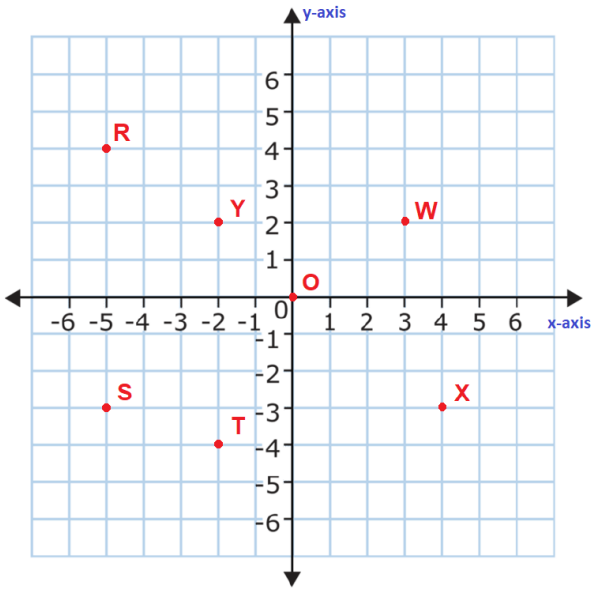
Grade 5 Geometry Answer Sheet

1. Label the x-axis and the y-axis of the coordinate plane.



2. What is the coordinate of point O?
   (0, 0)

3. Which point is located at $(-2, -4)$?
   point T

4. Write the coordinates of point X.
   (4, -3)

5. What is the vertical distance between point Y and point T? **6 units**

6. Write the coordinates of point R.
   (-5, 4)

7. Which point(s) is (are) vertically farthest from the origin? **both points R and T**

8. Which point(s) is (are) horizontally farthest from the origin? **both points R and S**

9. What is the horizontal distance between point Y and point W? **5 units**

10. From point T, move 5 in positive x direction and 5 units in positive y direction. Write the coordinates of the final position. **(3, 1)**

11. Write one point whose coordinates are both negative. **point S; point T**

12. Write one point whose coordinates are both positive. **point W**

13. Which point has a negative x-coordinate and a positive y-coordinate? **point R; point Y**

14. How many units away from the origin in positive y direction is point Y? **2 units**

15. Points S and X have a horizontal distance of 5 units. True or False? **False**