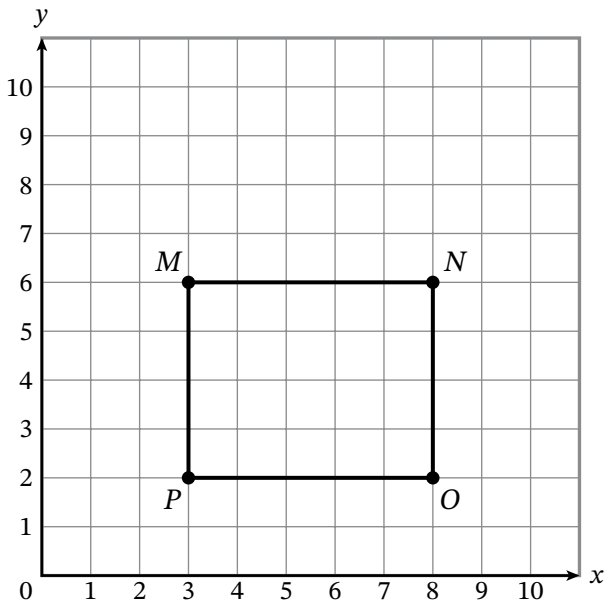
14

Name _____ Date _____

1. Rectangle *MNOP* is shown in the coordinate plane.



a. Circle the ordered pairs for vertices of rectangle *MNOP*.

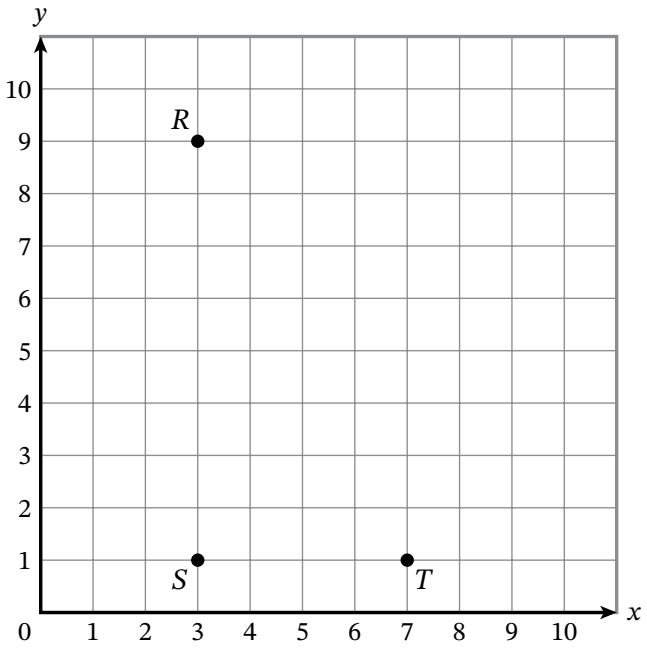
(5, 6) (8, 5) (8, 2) (8, 6)

(3, 2) (4, 2) (3, 4) (3, 6)

b. Points *M* and *N* have the same _____-coordinate because they are on the same horizontal line.

c. Points *N* and *O* have the same _____-coordinate because they are on the same vertical line.

2. Points R, S, and T are three of the vertices of a rectangle. Plot the fourth vertex of the rectangle. Label the point U and write its ordered pair next to the point.

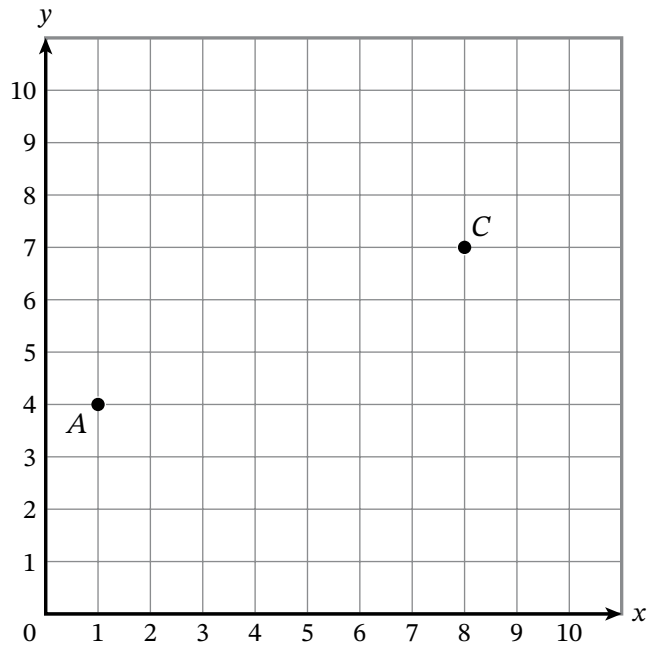


3. Points A and C are opposite vertices of a rectangle.

   a. Plot the other two vertices of the rectangle. Label the points B and D.

   b. Draw rectangle $ABCD$.

   c. What are the coordinates of points B and D?

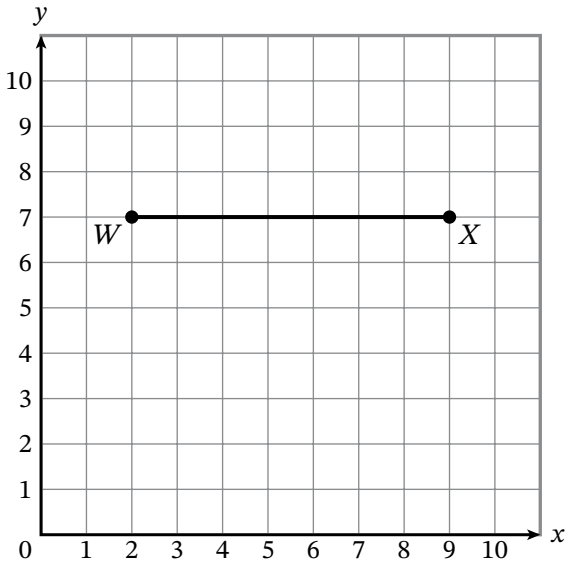


4. $\overline{WX}$ of rectangle *WXYZ* is shown in the coordinate plane. The width of rectangle *WXYZ* is 2 units.

   Determine whether each ordered pair could be the location of a vertex of rectangle *WXYZ*. Write each ordered pair in the correct column of the table.

   (9, 5) (9, 6) (2, 8) (9, 9)

   (2, 5) (9, 8) (2, 6) (2, 9)



Possible Vertex of Rectangle *WXYZ*	Not a Possible Vertex of Rectangle *WXYZ*

5. Point H is plotted at (4, 5).

   a. Draw a rectangle with a length of 5 units and a width of 4 units. Use point H as one of the rectangle's vertices.

   b. What are the coordinates of the three other vertices of your rectangle?