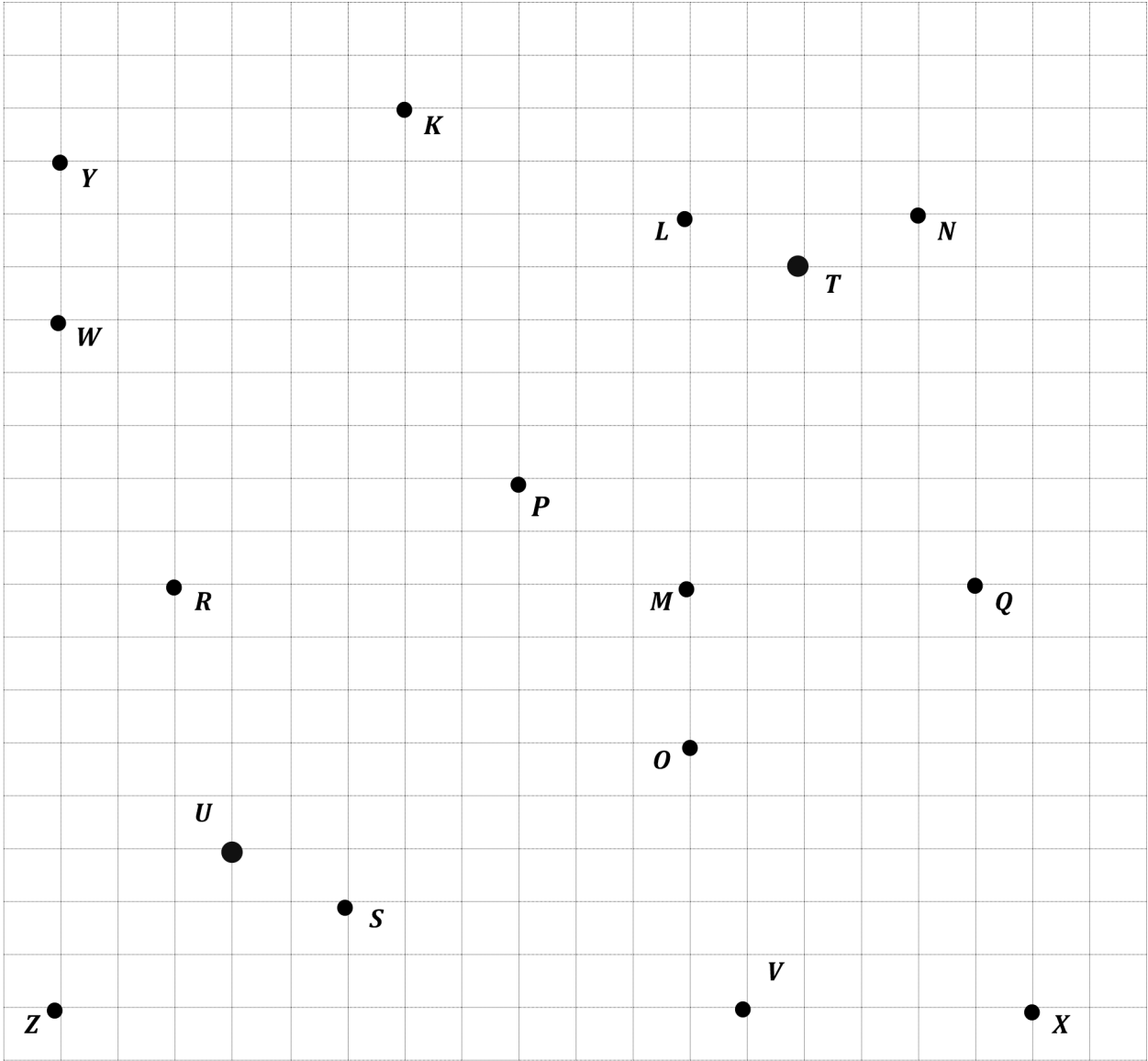


Name _____

Date _____

1. Use the grid below to complete the following tasks.
- a. Construct a y -axis that passes through points Y and Z .
 - b. Construct a perpendicular x -axis that passes through points Z and X .
 - c. Label the origin as O .
 - d. The y -coordinate of W is $2\frac{3}{5}$. Label the whole numbers along the y -axis.
 - e. The x -coordinate of V is $2\frac{2}{5}$. Label the whole numbers.



2. For all of the following problems, consider the points K through X on the previous page.

- Identify all of the points that have a y -coordinate of $1\frac{3}{5}$.
- Identify all of the points that have an x -coordinate of $2\frac{1}{5}$.
- Which point is $1\frac{3}{5}$ units above the x -axis *and* $3\frac{1}{5}$ units to the right of the y -axis? Name the point and give its coordinate pair.
- Which point is located $1\frac{1}{5}$ units from the y -axis?
- Which point is located $\frac{2}{5}$ units along the x -axis?
- Give the coordinate pair for each of the following points.
 T : _____ U : _____ S : _____ K : _____
- Name the points located at the following coordinates.
 $(\frac{2}{5}, \frac{3}{5})$ _____ $(3\frac{2}{5}, 0)$ _____ $(2\frac{1}{5}, 3)$ _____ $(0, 2\frac{3}{5})$ _____
- Plot a point whose x - and y -coordinates are equal. Label your point E .
- What is the name for the point on the plane where the two axes intersect? _____ Give the coordinates for this point. _____
- Plot the following points.
 A : $(1\frac{1}{5}, 1)$ B : $(\frac{1}{5}, 3)$ C : $(2\frac{4}{5}, 2\frac{2}{5})$ D : $(1\frac{1}{5}, 0)$
- What is the distance between L and N , or LN ?
- What is the distance MQ ?
- Would RM be greater, less than, or equal to $LN + MQ$?
- Leslie was explaining how to plot points on the coordinate plane to a new student, but she left off some important information. Correct her explanation so that it is complete.

"All you have to do is read the coordinates; for example, if it says $(4, 7)$, count four, then seven, and put a point where the two grid lines intersect."

Answer Key

1. Constructions match given parameters
2.
 - a. R, M, Q
 - b. O, M, L
 - c. Q
 - d. K
 - e. R
 - f. $T(2\frac{3}{5}, 2\frac{4}{5})$, $U(\frac{3}{5}, \frac{3}{5})$, $S(1, \frac{2}{5})$, $K(1\frac{1}{5}, 3\frac{2}{5})$
 - g. U, X, L, W
 - h. Point with equal x and y coordinates plotted
 - i. Origin, (0, 0)
 - j. Points plotted correctly
 - k. $\frac{4}{5}$
 - l. 1
 - m. Equal to
 - n. Explanations will vary.