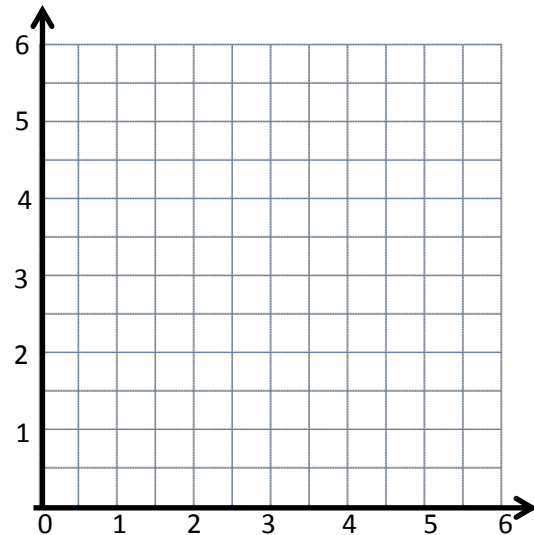


Name _____

Date _____

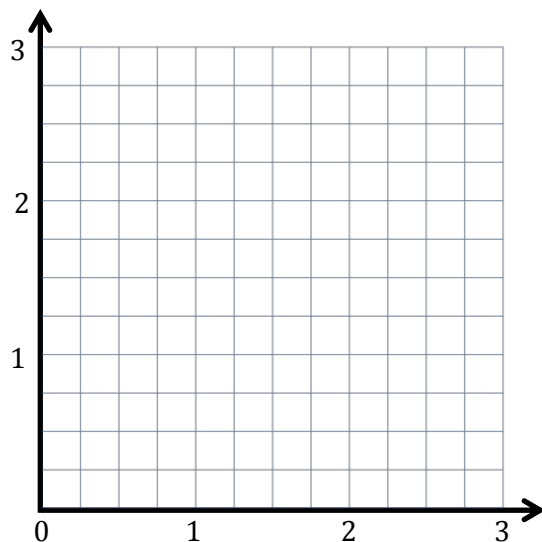
1. Complete the chart. Then, plot the points on the coordinate plane.

| x | y | (x, y) |
|----------------|----------------|----------|
| 2 | 0 | |
| $3\frac{1}{2}$ | $1\frac{1}{2}$ | |
| $4\frac{1}{2}$ | $2\frac{1}{2}$ | |
| 6 | 4 | |



- Use a straightedge to draw a line connecting these points.
 - Write a rule showing the relationship between the x - and y - coordinates of points on this line.
 - Name two other points that are also on this line. _____
2. Complete the chart. Then, plot the points on the coordinate plane.

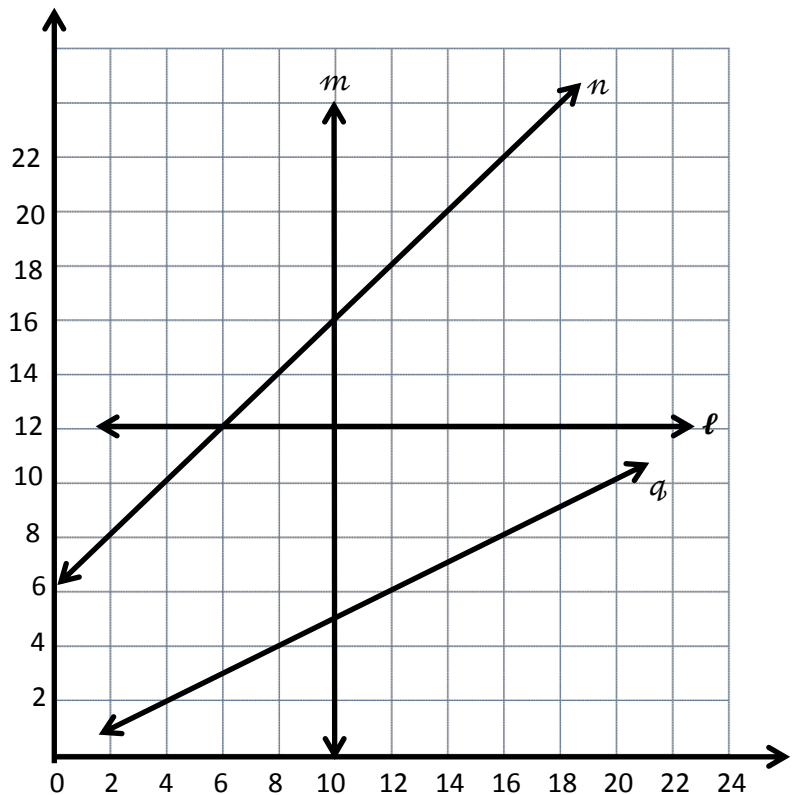
| x | y | (x, y) |
|---------------|----------------|----------|
| 0 | 0 | |
| $\frac{1}{4}$ | $\frac{3}{4}$ | |
| $\frac{1}{2}$ | $1\frac{1}{2}$ | |
| 1 | 3 | |



- Use a straightedge to draw a line connecting these points.
- Write a rule showing the relationship between the x - and y - coordinates for points on the line.
- Name two other points that are also on this line. _____

3. Use the coordinate plane to answer the following questions.

- For any point on line m , the x -coordinate is _____.
- Give the coordinates for 3 points that are on line n .
- Write a rule that describes the relationship between the x - and y -coordinates on line n .



- Give the coordinates for 3 points that are on line q .
- Write a rule that describes the relationship between the x - and y -coordinates on line q .
- For each point, identify a line on which each of these points lie.

(10,3.2) _____ (12.4, 18.4) _____ (6.45, 12) _____ (14, 7) _____