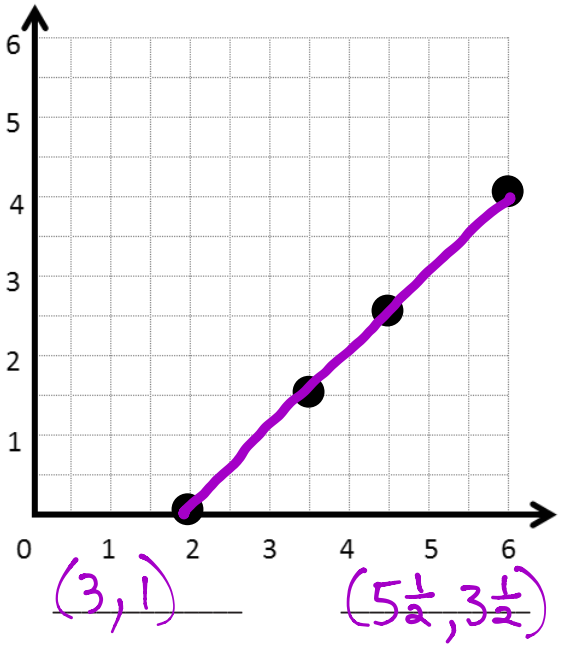
Name _____ Date _____

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

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



a. Use a straightedge to draw a line connecting these points.

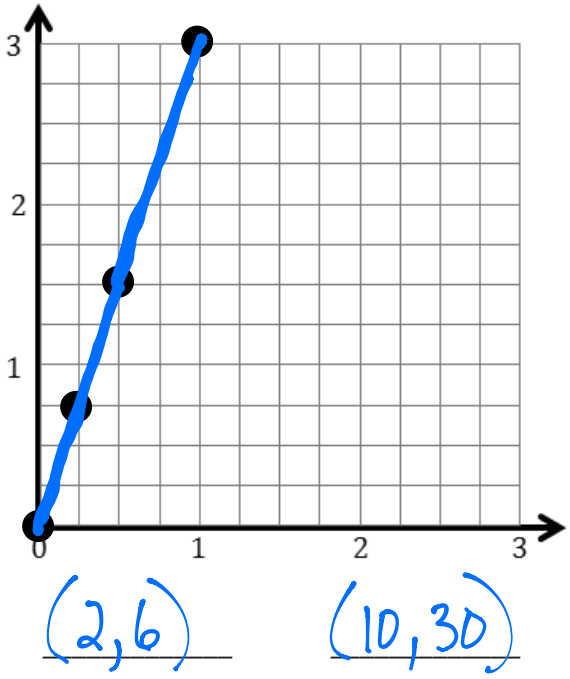
b. Write a rule showing the relationship between the x- and y-coordinates of points on this line.

$x - 2 = y$

c. 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	(0,0)
$\frac{1}{4}$	$\frac{3}{4}$	$(\frac{1}{4}, \frac{3}{4})$
$\frac{1}{2}$	$1\frac{1}{2}$	$(\frac{1}{2}, 1\frac{1}{2})$
1	3	(1,3)



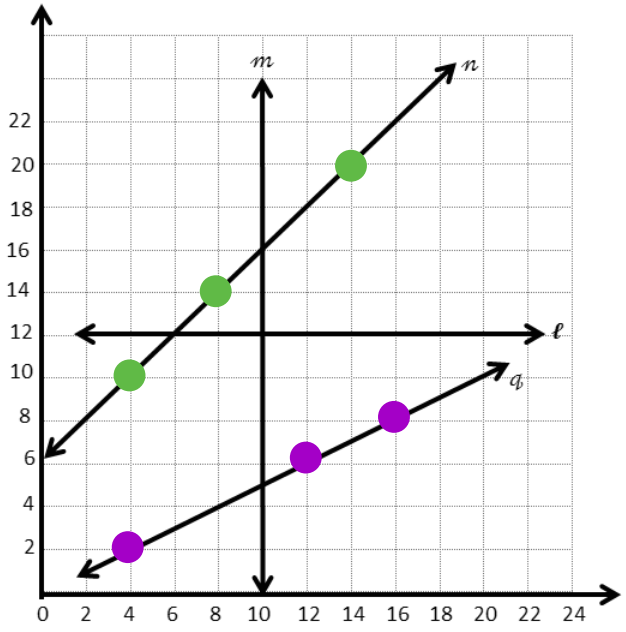
a. Use a straightedge to draw a line connecting these points.

b. Write a rule showing the relationship between the x- and y- coordinates for points on the line.

$x \cdot 3 = y$

c. Name two other points that are also on this line.

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



a. For any point on line m, the x-coordinate is 10.

b. Give the coordinates for 3 points that are on line n.

(4,10), (8,14), (14,20)

c. Write a rule that describes the relationship between the x- and y-coordinates on line n.

$x+6=y$

d. Give the coordinates for 3 points that are on line q.

(4,2), (12,6), (16,8)

e. Write a rule that describes the relationship between the x- and y-coordinates on line q.

$x \div 2 = y$ also known as $\frac{x}{2} = y$

f. Identify a line on which each of these points lie.

i. (10, 3.2) m ii. (12.4, 18.4) n iii. (6.45, 12) ℓ iv. (14, 7) q