



Name \_\_\_\_\_

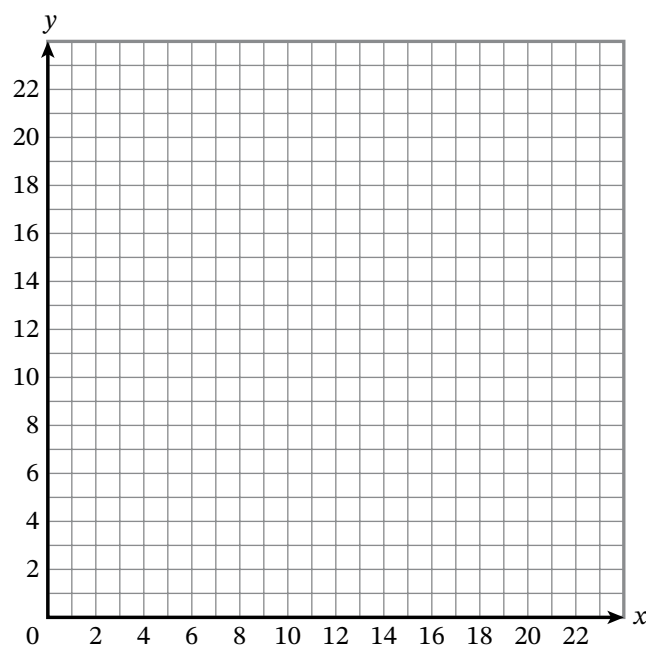
Date \_\_\_\_\_

1. Consider the coordinates and ordered pairs in the table.

a. Complete the table.

<b>x-Coordinate</b>	<b>y-Coordinate</b>	<b>Ordered Pair</b>
1	2	(1, 2)
3	6	(3, 6)
5	10	(5, 10)

b. Plot the six ordered pairs in the coordinate plane.



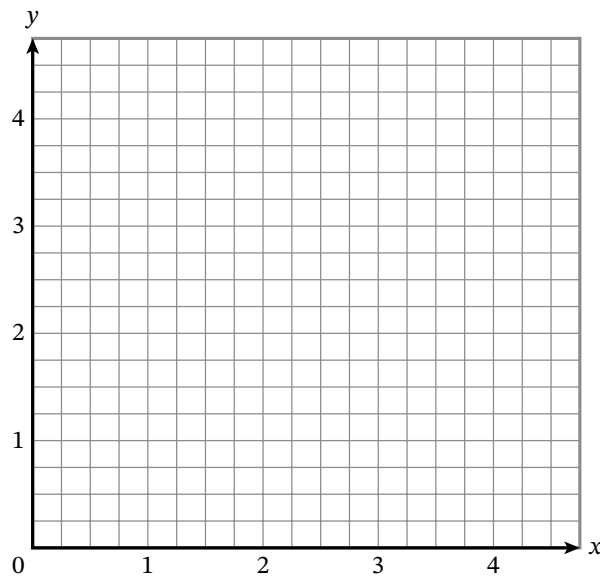
c. Describe the movement from one point to the next.

2. Multiply each  $x$ -coordinate by 4 to get its corresponding  $y$ -coordinate.

a. Complete the table.

$x$ -Coordinate	Calculation	$y$ -Coordinate	Ordered Pair
0	$0 \times 4 = 0$	0	(0, 0)
$\frac{1}{4}$			
$\frac{1}{2}$			
$\frac{3}{4}$			
1			

b. Plot the five ordered pairs in the coordinate plane.

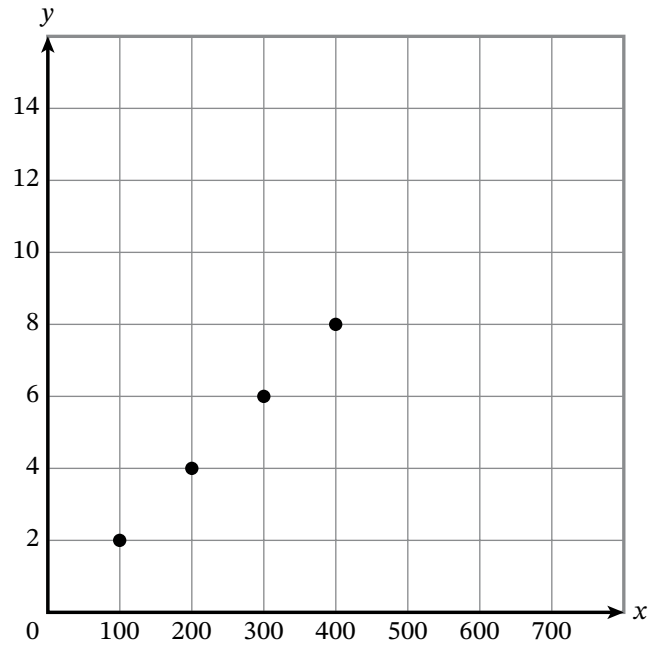


- c. Describe the movement from one point to the next.
- d. What is the rule for the  $x$ -coordinate?
- e. What is the rule for the  $y$ -coordinate?
- f. Fill in the blanks to describe the relationship between the  $x$ - and  $y$ -coordinates.

The \_\_\_\_\_-coordinates are \_\_\_\_\_  
the corresponding \_\_\_\_\_-coordinates.

- g. When the  $x$ -coordinate is  $\frac{7}{2}$ , what is the corresponding  $y$ -coordinate? Show how you know.
- h. When the  $y$ -coordinate is 20, what is the corresponding  $x$ -coordinate? Show how you know.

3. Use the graph to complete parts (a)–(d).



a. Use the rules for the coordinates to plot the next three points in the coordinate plane. What are the ordered pairs for the points?

b. Fill in the blanks to describe the relationship between the  $x$ - and  $y$ -coordinates.

The \_\_\_\_\_-coordinates are \_\_\_\_\_  
the corresponding \_\_\_\_\_-coordinates.

- c. What is the corresponding  $y$ -coordinate when the  $x$ -coordinate is 1,000?  
Show how you know.

- d. What is the corresponding  $x$ -coordinate when the  $y$ -coordinate is 1,000?  
Show how you know.