Name _____

Reteaching
16-4

Patterns and Graphing

Ron makes $5 every hour. A rule like this can be used to create a data table. The data can be plotted on a coordinate grid.

How to graph an rule:

Step 1:

Name three *x*-coordinates. Use the rule, substituting each *x*-coordinate to calculate each *y*-coordinate. Put the ordered pairs into the table.

Step 2:

Use grid paper. Choose an interval for each axis. Label and number the axes.

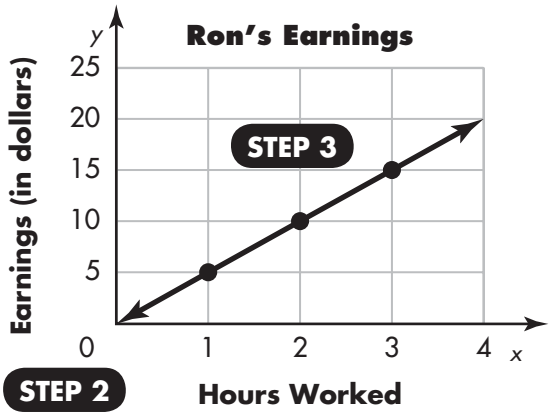
Choose the starting point and ending point for each axis.

Step 3:

Graph the data by using the coordinates for each set of data as a point. Connect all the points in a straight line. Title your graph.

STEP 1

$y = 5x$	
***x*-Hours**	***y*-Earnings**
0	0
1	5
2	10
3	15



1. Graph the points from the table below to show the cost of buying harmonicas. Let *x* equal the number of harmonicas, and let *y* equal the cost of each harmonica. Harmonicas are available online for $3 each, plus a single shipping charge of $2.

$y = 3x + 2$	
x	***y***
1	5
2	8
3	11

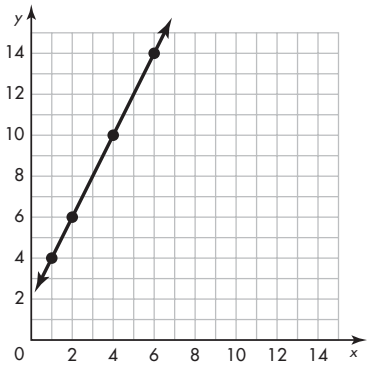
Name _____

Practice
16-4

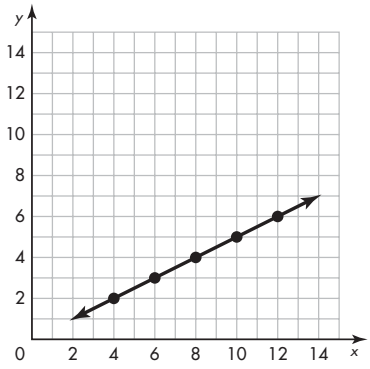
Patterns and Graphing

In **1** and **2** create a data table from the points plotted on the graph.

1.



2.



3. Janice is 7 years older than Tam. Complete the table, and then graph this situation.

Tam *x* (years)	Janice *y* (years)
2	9
4	
6	
8	

4. There are 4 cupcakes in every package. Complete the table, and then graph this situation.

x (number of packages)	*y* (number of cupcakes)
1	4
2	
3	
4	
5	

5. Tickets to the River Dell Middle School concert cost $6 apiece. Complete the table, and then graph this situation.

x (tickets sold)	*y* (money received)
1	$6
2	
3	
4	
5	

6. A graph includes the ordered pair (2, 4). Write two different rules that would be possible for this graph. Explain how you found your answer.

_____

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