

# More Patterns and Graphing

Lila and Steve are saving money. Steve starts with no money and Lila starts with \$6. Each deposits \$2 a day in to a savings account.

Graph the relationship between the amount of money each person saves. Let  $x$  = Lila's money and  $y$  = Steve's money.

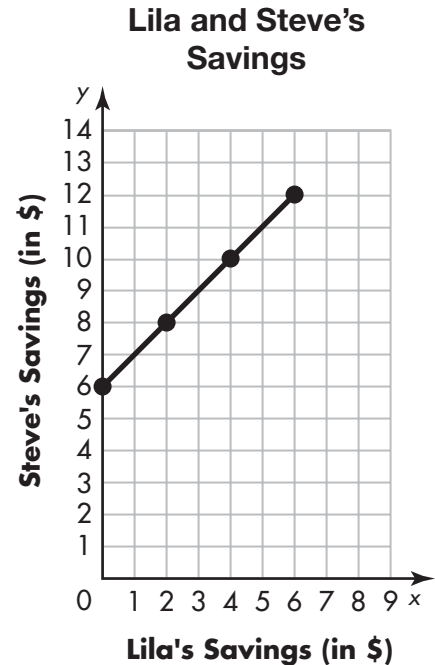
Choose 3  $x$ -values.

Make a table of ordered pairs.

Graph the ordered pairs and draw a line.

Every  $x$ -value determines a  $y$ -value, so you can find the value of  $y$  for each value of  $x$ .

	Lila	Steve
Start	0	6
Week 1	2	8
Week 2	4	10
Week 3	6	12



For **1** through **3**, use the information below.

Rule for  $y_1$ : Add 3 to the  $x$ -value.

Rule for  $y_2$ : Add 6 to the  $x$ -value.

$x$	$y_1$	$y_2$
1	4	7
2		
3	6	
4		10
5	8	11
6	9	
7		

**1.** Find the missing information in the table using the given rules.

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**2.** Find the values of  $y_1$  and  $y_2$  when  $x = 10$ .

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**3.** Graph the relationship between  $y_1$  and  $y_2$  on a coordinate grid.

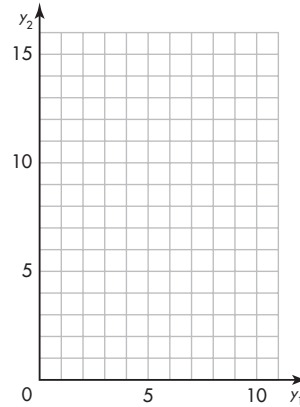
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# More Patterns and Graphing

For **1** and **2**, Graph the corresponding coordinates of  $y_1$  and  $y_2$ . Describe the relationship between the two sequences.

1.

Day	$y_1$	$y_2$
1	1	7
2	3	9
3	5	11
4	7	13



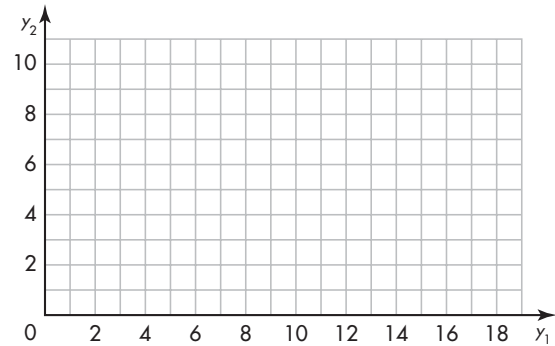

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2.

Week	$y_1$	$y_2$
2	4	1
3	8	2
4	12	3
5	16	4



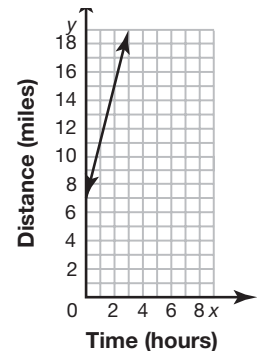

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3. Dean is on a hike. The graph shows how far away he is from a camp site. How far away is he after 2 hours?

- A** 5 miles                      **C** 15 miles  
**B** 10 miles                      **D** 20 miles



4. Ian gets \$9 for each hour he works and \$10 for each day he works. To find out how much he makes in a day, he made the equation  $y = 9x + 10x$ , where  $x$  is the number of hours he works. Explain why Ian's equation will not tell him how much he makes in a day.

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