

READY, SET, GO!

Name _____

Date _____

READY

Topic: Recognizing Solutions to Equations

The solution to an equation is **the value of the variable** that makes the equation **true**. In the equation $9a + 17 = -21$, "a" is the variable. When $a = 2$, $9a + 17 \neq -19$, because $9(2) + 17 = 35$. Thus $a = 2$ is NOT a solution. However, when $a = -4$, the equation is true $9(-4) + 17 = -19$. Therefore, $a = -4$ must be the solution.

Identify which of the 3 possible numbers is the solution to the equation.

1. $3x + 7 = 13$ ($x = -2$; $x = 2$; $x = 5$)

2. $8 - 2b = -2$ ($b = -3$; $b = 0$; $b = 5$)

3. $5 + 4g + 8 = 1$ ($g = -3$; $g = -1$; $g = 2$)

4. $6t - 5 + 5t = 105$ ($t = 4$; $t = 7$; $t = 10$)

Some equations have two variables. You may recall seeing an equation written like the following:
 $y = 5x + 2$. We can let x equal a number and then work the problem with this x - value to determine the associated y - value. A solution to the equation must include both the x - value and the y - value. Often the answer is written as an **ordered pair**. The **x - value is always first**. Example: (x, y) . The order matters!

Determine the y -value of each ordered pair based on the given x - value.

5. $y = 6x - 15$; $(8, \quad)$, $(-1, \quad)$, $(5, \quad)$

6. $y = -4x + 9$; $(-5, \quad)$, $(2, \quad)$, $(4, \quad)$

7. $y = 2x - 1$; $(-4, \quad)$, $(0, \quad)$, $(7, \quad)$

8. $y = -x + 9$; $(-9, \quad)$, $(1, \quad)$, $(5, \quad)$

SET

Topic: Using a constant rate of change to complete a table of values

Fill in the table. Then write a sentence explaining how you figured out the values to put in each cell.

9. You run a business making birdhouses. You spend \$600 to start your business, and it costs you \$5.00 to make each birdhouse.

# of birdhouses	1	2	3	4	5	6	7
Total cost to build							

Explanation:

10. You make a \$15 payment on your loan of \$500 at the end of each month.

# of months	1	2	3	4	5	6	7
Amount of money owed							

Explanation:

11. You deposit \$10 in a savings account at the end of each week.

# of weeks	1	2	3	4	5	6	7
Amount of money saved							

Explanation:

12. You are saving for a bike and can save \$10 per week. You have \$25 when you begin saving.

# of weeks	1	2	3	4	5	6	7
Amount of money saved							

Explanation:

GO

Topic: Graph Linear Equations Given a Table of Values.
Graph the ordered pairs from the tables on the given graphs.

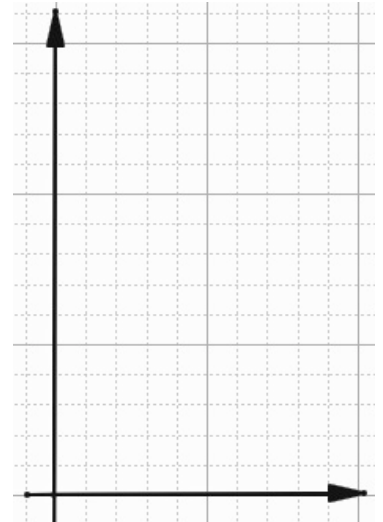
13.

x	y
0	3
2	7
3	9
5	13



14.

x	y
0	14
4	10
7	7
9	5



15.

x	y
2	11
4	10
6	9
8	8



16.

x	y
1	4
2	7
3	10
4	13

