

# Quiz1

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Clara examines the following function.

$x$	$y$
1	4
2	11
3	18
4	25
5	32

What is the correct description of the function that gives these results for  $y$ ?

- A. add 3 to  $x$
- B. add 7 to  $x$
- C. multiply  $x$  by 5, then subtract 1
- D. multiply  $x$  by 7, then subtract 3

2. The coordinates in the table below were found using a linear equation.

$x$	$y$
1	5
2	8
3	11

Which linear equation could be used to find the coordinates in the table?

- A.  $y = 2x + 3$
- B.  $y = 2x - 3$
- C.  $y = 3x + 2$
- D.  $y = 3x - 2$

3. Look at the table of values.

$x$	$y$
-1	-4
0	-1
1	2
2	5
3	8

Which equation represents the relationship between  $x$  and  $y$ ?

- A.  $y = x - 3$
- B.  $y = 3x + 1$
- C.  $y = -x - 3$
- D.  $y = 3x - 1$

4. Look at the table of values.

$x$	$y$
-6	11
-2	7
0	5
4	1
8	-3

Which equation represents the relationship between  $x$  and  $y$ ?

- A.  $y = x - 1$
- B.  $y = x - 4$
- C.  $y = 5 - x$
- D.  $y = 2x + 3$

5. Which equation models the values in the table?

$x$	1	2	3	5
$y$	6	9	12	18

- A.  $y = x + 3$                       B.  $y = x + 9$   
 C.  $y = 3x$                               D.  $y = 3x + 3$

6. A relationship is shown in the table below.

$x$	$y$
1	2
2	5
3	8
4	11

Which rule represents this relationship?

- A.  $y = 2x$                               B.  $y = x + 1$   
 C.  $y = 3x - 1$                           D.  $y = 3x + 2$

7. Which equation represents the pattern shown in the table below?

$x$	1	2	3	4	5
$y$	6	10	14	18	22

- A.  $y = x + 4$                               B.  $y = 3x + 3$   
 C.  $y = 4x + 2$                               D.  $y = 6x$

8. Which equation represents the data shown in the table?

$x$	$y$
3	9
2	7
1	5
0	3
-1	1
-2	-1
-3	-3

- A.  $y = x + 6$                               B.  $y = 3x + 2$   
 C.  $y = 2x + 3$                               D.  $y = 4x - 2$

9. Use the table below to answer the following question.

$x$	$y$
1	4
2	8
3	12
4	16
5	20

Which equation describes the relationship shown in the table?

- A.  $y = x + 3$                               B.  $y = 2x + 2$   
 C.  $y = 3x$                                       D.  $y = 4x$

10. Based on the information given in the table shown below, which of the following equations correctly states the relationship between  $x$  and  $y$ ?

$x$	$y$
1	3
2	4
3	5
4	6
5	7

- A.  $y = 2x$                       B.  $y = x \div 2$   
 C.  $y = x + 2$                     D.  $y = x - 2$

11. A table is shown.

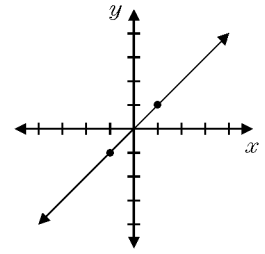
$f$	$g$
4	2
8	4
16	8

What rule was used to make the table?

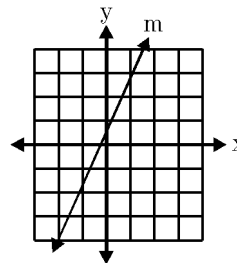
- A.  $g = 2f$                       B.  $g = \frac{f}{2}$   
 C.  $g = f + 2$                     D.  $g = 2f + 2$

12. What is an equation of the line whose graph is shown?

- A.  $y = -x$   
 B.  $y = 2x$   
 C.  $y = x$   
 D.  $y = 2$



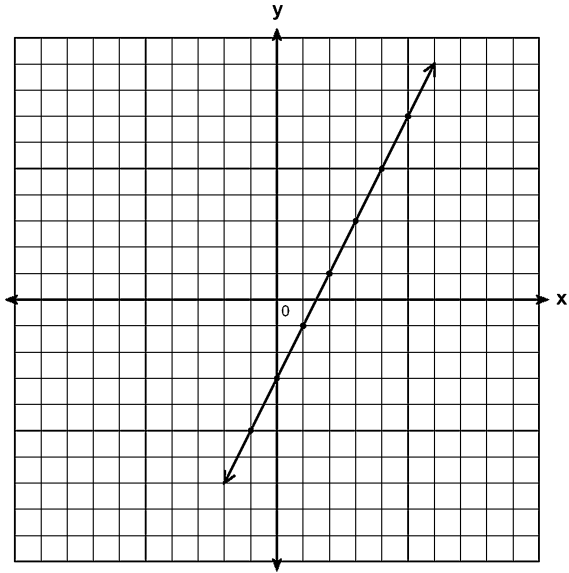
13. The diagram shows the graph of the line  $m$



Which equation represents this line?

- A.  $y = 2x + 1$                     B.  $y = \frac{1}{2}x + 2$   
 C.  $y = -2x + 1$                     D.  $y = -\frac{1}{2}x + 2$

14. Write the equation for the line shown in the accompanying graph. Explain your answer.



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- |            |              |
|------------|--------------|
| 1.         |              |
| Answer:    | D            |
| Points:    | 1            |
| 2.         |              |
| Answer:    | C            |
| Points:    | 1            |
| 3.         |              |
| Answer:    | D            |
| Objective: | 3-2-1        |
| Points:    | 1            |
| 4.         |              |
| Answer:    | C            |
| Objective: | 3-2-1        |
| Points:    | 1            |
| 5.         |              |
| Answer:    | D            |
| Points:    | 1            |
| 6.         |              |
| Answer:    | C            |
| Points:    | 1            |
| 7.         |              |
| Answer:    | C            |
| Points:    | 1            |
| 8.         |              |
| Answer:    | C            |
| Points:    | 1            |
| 9.         |              |
| Answer:    | D            |
| Objective: | CC 6.EE.9    |
| Points:    | 1            |
| 10.        |              |
| Answer:    | C            |
| Objective: | MA 6.P.5     |
| Points:    | 1            |
| 11.        |              |
| Answer:    | B            |
| Objective: | 2.1          |
| Points:    | 1            |
| 12.        |              |
| Answer:    | C            |
| Points:    | 1            |
| 13.        |              |
| Answer:    | A            |
| Points:    | 1            |
| 14.        |              |
| Answer:    | $y = 2x - 3$ |
| Points:    | 1            |