

Block 4 Review ~ Integers and Functions

Name _____ Period _____ Date _____

1. Which of the following statements are true? Circle all that apply.

- A. $|-8| = -8$
- B. $|-8| = \frac{1}{8}$
- C. $|-8| = |8|$
- D. $|-8| = 8$
- E. $|-8| = -\frac{1}{8}$

2. Annual rainfall in a town was 3 inches less than normal. What integer represents this situation?

- A. -3
- B. 0
- C. 3
- D. 3 and -3

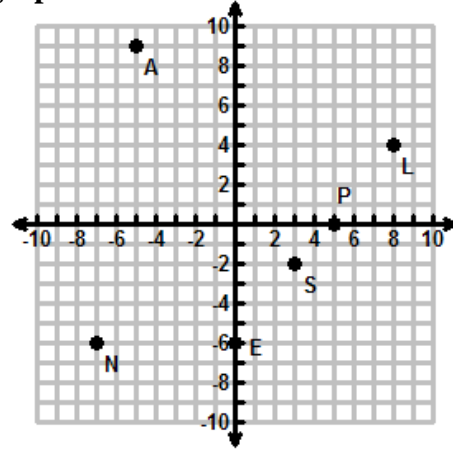
3. Which of the following statements are true? Circle all that apply.

- A. $5 > 7$
- B. $-5 > -7$
- C. $-4 < 3$
- D. $0 > -3$
- E. $-2 < -10$
- F. $-8 = -8.0$

4. Which of following lists is in order from least to greatest?

- A. -5, -9, -1, 2
- B. -5, -1, 2, -9
- C. -9, -5, -1, 2
- D. -1, 2, -5, -9

For numbers 5a – 5c, determine whether each statement is true or false. Use the graph below.



5a. The ordered pair representing point S is (-2, 3). TRUE FALSE

5b. The ordered pair representing point E is (1, -6). TRUE FALSE

5c. Point E is on the x-axis. TRUE FALSE

6. Three vertices of a square are located at (2, 5), (-1, 5) and (-1, 2). What is the location of the fourth vertex?

- A. (2, -1)
- B. (5, 2)
- C. (2, 2)
- D. (5, -1)

7. Which of the following statements are ALWAYS true? Circle all that apply.

- A. A square is a rhombus.
- B. A rectangle is a square.
- C. A parallelogram is a rectangle.
- D. A square is a trapezoid.
- E. A rectangle is parallelogram.

8. The input-output table shows three values for the function rule $y = 4 + 5x$. What is the missing value?

- A. 5
- B. 15
- C. 24
- D. 39

Input x	Output y
0	4
3	19
7	

9. The input-output table shows three values for the function rule $y = 3 + 1.5x$. What is the missing value?

- A. 4.5
- B. 7.5
- C. 9
- D. 10.5

Input x	Output y
0	3
2	6
5	

10. What are the three ordered pairs from the input-output table shown below?

- A. (2, 8), (3, 6), (6, 0)
- B. (8, 2), (6, 3), (0, 6)
- C. (2, 3), (6, 8), (6, 0)
- D. (6, 2), (3, 8), (0, 6)

Input x	Output y
2	8
3	6
6	0

11. What is the function rule for the input-output table shown below?

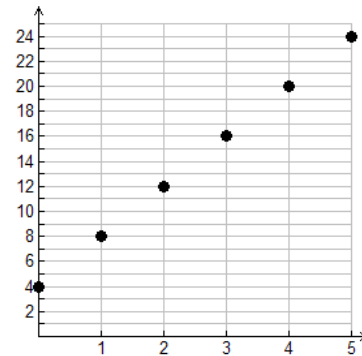
Input x	Output y
0	7
1	5
2	3
3	1

- A. $y = 2 + 7x$
- B. $y = 7 - 2x$
- C. $y = 1 + 2x$
- D. $y = 1 - 7x$

12. What is the start value and amount of change of the function rule $y = 6 + 3x$?

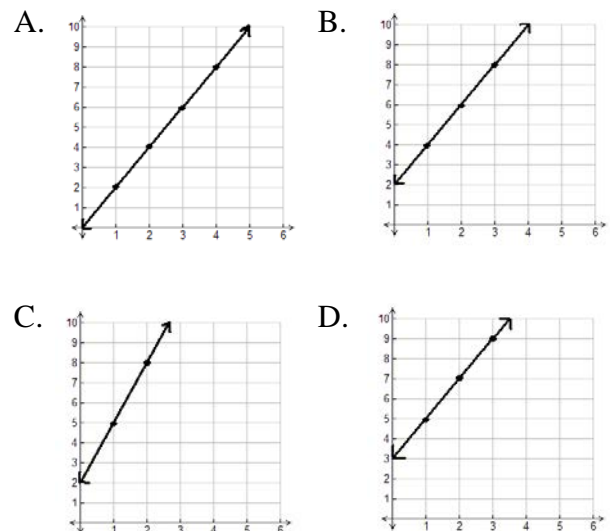
- A. Start Value: 3
Amount of Change: Add 6
- B. Start Value: 6
Amount of Change: Add 3
- C. Start Value: 3
Amount of Change: Subtract 6
- D. Start Value: 6
Amount of Change: Subtract 3

13. What is the function rule for the graph shown below?



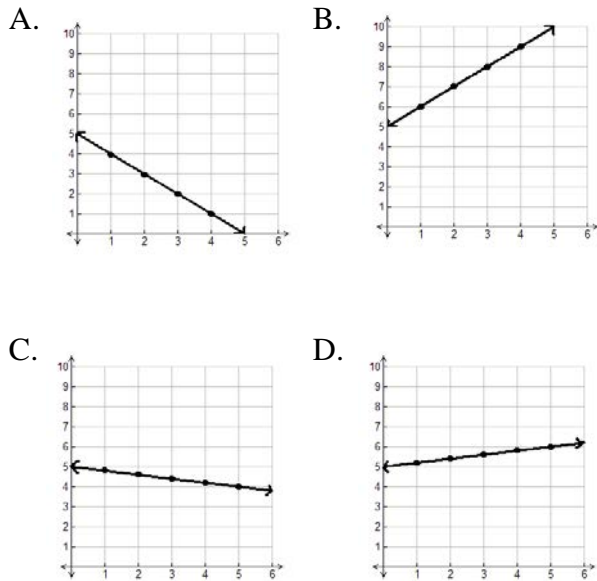
- A. $y = 4 + x$
- B. $y = 4 - 4x$
- C. $y = 4 + 4x$
- D. $y = 24 - 4x$

14. Which of the graphs below shows the linear function $y = 2x + 3$?



15. Which of the following graphs below shows the linear function represented in the input-output table?

Input x	Output y
0	5
1	4
2	3
3	2



For numbers 16a – 16c, use the recursive sequence below. Circle YES or NO for each statement.

4, 8, 12, _____, _____

16a. The repeated operation is addition. YES NO

16b. The start value is 4. YES NO

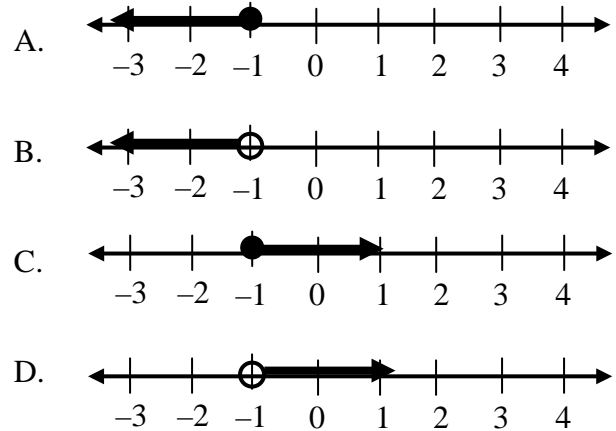
16c. The next two terms of the sequence are 16 and 20. YES NO

17. What are the missing terms in the recursive sequence?

3, _____, 7, 9, _____

- A. 4, 10
- B. 5, 11
- C. 10, 16
- D. 6, 18

18. Which graph represents $x < -1$?



19. Kayla has more than \$10 in her pocket. Which inequality represents the amount of money, m , that is in Kayla's pocket?

- A. $m > \$10$
- B. $m < \$10$
- C. $m \geq \$10$
- D. $m \leq \$10$