Linear Patterns

Grades 6-8 • Recognizing linear relationships and finding equations

Name: _____ Date: _____

1. What is the pattern in these points? (-2, -8), (-1, -5), (0, -2), (1, 1), (2, 4)

Answer: _____

2. If y = 2x + 0, what is y when x = -4?

Answer: _____

3. What is the pattern in these points? (-2, 2), (-1, 0), (0, -2), (1, -4), (2, -6)

Answer: _____

4. If y = 2x + -2, what is y when x = 1?

Answer: _____

5. What is the pattern in these points? (-2, -3.0), (-1, -2.5), (0, -2.0), (1, -1.5), (2, -1.0)

Answer: _____

6. What is the pattern in these points? (-2, 2), (-1, 1), (0, 0), (1, -1), (2, -2)

Answer: _____

7. What is the pattern in these points? (-2, 0), (-1, 1), (0, 2), (1, 3), (2, 4)

Answer: _____

8. What is the pattern in these points? (-2, -1.0), (-1, -1.5), (0, -2.0), (1, -2.5), (2, -3.0)

Answer: _____

9. If y = 1x + 2, what is y when x = 5?

Answer: _____

10. If y = 1x + 2, what is y when x = -2?

Answer: _____

Answer Key

1.	What is the pattern in these points? (-2, -8), (-1, -5), (0, -2), (1, 1), (2, 4)	**y = 3x - 2**
2.	If y = 2x + 0, what is y when x = -4?	**-8**
3.	What is the pattern in these points? (-2, 2), (-1, 0), (0, -2), (1, -4), (2, -6)	**y = -2x - 2**
4.	If y = 2x + -2, what is y when x = 1?	**0**
5.	What is the pattern in these points? (-2, -3.0), (-1, -2.5), (0, -2.0), (1, -1.5), (2, -1.0)	**y = 0.5x - 2**
6.	What is the pattern in these points? (-2, 2), (-1, 1), (0, 0), (1, -1), (2, -2)	**y = -1x**
7.	What is the pattern in these points? (-2, 0), (-1, 1), (0, 2), (1, 3), (2, 4)	**y = x + 2**
8.	What is the pattern in these points? (-2, -1.0), (-1, -1.5), (0, -2.0), (1, -2.5), (2, -3.0)	**y = -0.5x - 2**
9.	If y = 1x + 2, what is y when x = 5?	**7**
10.	If y = 1x + 2, what is y when x = -2?	**0**