Equations and Tables & Number Patterns

1. a. Complete the table below.

х	У
-2	-7
-1	-2
0	3
1	8
2	
3	
4	

b. Which of the following equations matches the table above?

A.
$$y = x + 8$$

B.
$$y = -2x - 7$$

C.
$$y = 5x + 8$$

D.
$$y = 5x + 3$$

2. Given the equation y = -3x + 2, what numbers complete the x/y table?

х	У
-1	
0	
1	

3. What number comes next in this pattern?

4. What number comes next?

5. What is the missing number in this sequence?

5, 8, 14, _____, 50

6. What is the missing number in this sequence?

5, _____, 17, 23, 29

7. What number comes next in this sequence?

0.125, 0.25, 0.5, 1, ...

- A. 1.25
- B. 1.5
- C. 2
- D. 2.5
- 8. What two numbers come next in this sequence?

3, 4, 6, 10, 18, ...

- A. 24, 52
- B. 28, 56
- C. 30, 58
- D. 34, 66
- 9. Fill in the table using the equation: $y = \frac{2}{3}x 4$

	J
X	У
-3	
0	
3	

- 10. y = -5x + 3 Is (-4, -17) a solution?
- 11. $y = \frac{1}{2}x 2$ Is (10, 3) a solution?

12. $y = -\frac{5}{6}x + 8$ What is the value of y when x = -18?

Equations and Tables & Number Patterns Answers

1. a. Complete the table below.

х	У
-2	-7
-1	-2
0	3
1	8
2	13
3	18
4	23

b. Which of the following equations matches the table above?

A.
$$y = x + 8$$

B.
$$y = -2x - 7$$

C.
$$y = 5x + 8$$

D.
$$y = 5x + 3$$

2. Given the equation y = -3x + 2, what numbers complete the x/y table?

х	У
-1	
0	
1	

3. What number comes next in this pattern?

34

4. What number comes next?

21

- 5. What is the missing number in this sequence?
 - 5, 8, 14, _____, 50

26

- 6. What is the missing number in this sequence?
 - 5, _____, 17, 23, 29

11

7. What number comes next in this sequence?

- A. 1.25
- B. 1.5
- C. 2
- D. 2.5
- 8. What two numbers come next in this sequence?

- A. 24, 52
- B. 28, 56
- C. 30, 58
- D. 34, 66
- 9. Fill in the table using the equation: $y = \frac{2}{3}x 4$

	3
Х	У
-3	-6
0	-4
3	-2

- 10. y = -5x + 3 Is (-4, -17) a solution?
- No
- 11. $y = \frac{1}{2}x 2$ Is (10, 3) a solution?
- Yes

- 12. $y = -\frac{5}{6}x + 8$ What is the value of y when x = -18? y = 23