

Worksheet 5: Functions with Tables

Name: _____ Date: _____

Instructions

- Read each question carefully
- Choose the best answer
- Circle the letter of your choice
- Only one answer per question

1. Look at this table. What is $f(2)$?

x	1	2	3	4
f(x)	5	8	11	14

- A) 2
- B) 5
- C) 8
- D) 11

2. Using the same table above, what is the value of x when $f(x) = 11$?

A) 1

B) 2

C) 3

D) 4

3. What pattern do you see in the table above?

A) $f(x)$ decreases by 3 each time

B) $f(x)$ increases by 3 each time

C) $f(x)$ doubles each time

D) $f(x)$ stays the same

4. Which table represents a linear function?

A) x : 1, 2, 3, 4 and y : 2, 4, 8, 16

B) x : 1, 2, 3, 4 and y : 3, 5, 7, 9

C) x : 1, 2, 3, 4 and y : 1, 4, 9, 16

D) x : 1, 2, 3, 4 and y : 2, 3, 5, 8

5. Look at this table. If the pattern continues, what would $f(5)$ be?

x	1	2	3	4
$f(x)$	10	8	6	4

- A) 0
- B) 2
- C) 6
- D) 12

6. In the table below, what is the rate of change?

x	0	1	2	3
y	4	7	10	13

- A) 3
- B) 4
- C) 7
- D) 1

7. Which table shows a function where y decreases as x increases?

- A) x: 1, 2, 3 and y: 5, 6, 7
- B) x: 1, 2, 3 and y: 8, 5, 2
- C) x: 1, 2, 3 and y: 3, 3, 3
- D) x: 1, 2, 3 and y: 1, 4, 9

8. If a table shows that when $x = 0$, $y = 5$, what does this represent?

- A) The slope
- B) The x-intercept
- C) The y-intercept
- D) The maximum

9. Look at this input-output table. What rule could describe this function?

Input (x)	1	2	3	4
Output (y)	4	8	12	16

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

10. A table shows the cost of buying movie tickets. If 1 ticket costs \$12 and 2 tickets cost \$24, what would 5 tickets cost?

- A) \$36
- B) \$48
- C) \$60
- D) \$72