

## 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