



Introduction to Functions

Name _____ Class _____ Date _____

1 A **function** is a **rule** in which a number, called the **input**, has mathematical operations performed to it to determine the **answer** of another number, called the _____.

2 The **function** $y = x + 2$ when evaluated for the **input** of 6, gives an **output** of _____.

$$y = x + 2$$

3 What is the _____ by 6 and _____

4 When the _____ for the x -_____ are the y -_____

6 The table shown represents which **function**? Check it.

Input, x	2	3	4	5
Output, y	-3	-1	1	3

$y = 2x - 5$

$y = 2x - 7$

$y = 2x - 1$

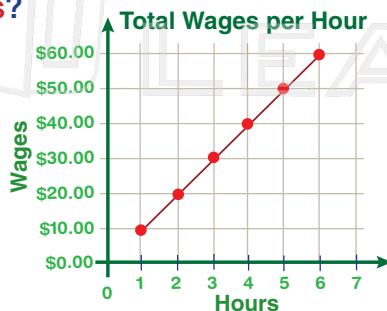


PREVIEW

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x-value	y-value
18	
20	
22	

5 This graph represents wages per hour. What are the **output values** for working 3, 4, and 5 hours?



9 Write the equation of a line with a **slope** of -3 and a **y-intercept** of 9.

10 The equation of a line is $y = -8x - 5$. What is the **slope** of the line?



Introduction to Functions - Answer Key

Math
F

Name _____ Class _____ Date _____

1 A **function** is a **rule** in which a number, called the **input**, has mathematical operations performed to it to determine the **answer** of another number, called the **output**.

2 The **function** $y = x + 2$ when evaluated for the **input** of 6, gives an **output** of 8.
 $y = x + 2$

3 What is the **output** when the **input** is 6 and the **equation** is $y = 2x - 7$?

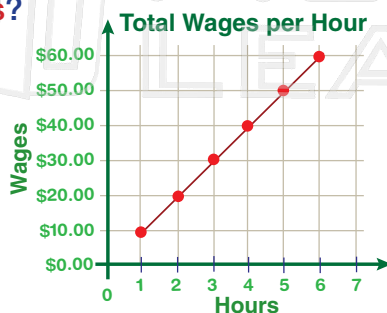
15

4 When the **input** is 2, the **output** is 1. What are the **input** and the **output** when the **input** is 5 and the **output** is 11?

x-value	y-value
18	9
20	10
22	11

5 This graph represents wages per hour. What are the **output values** for working 3, 4, and 5 hours?

\$30, \$40, \$50



6 The table shown represents which **function**? Check it.

Input, x	2	3	4	5
Output, y	-3	-1	1	3

$y = 2x - 5$

$y = 2x - 7$

$y = 2x - 1$



PREVIEW

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9 Write the equation of a line with a **slope** of -3 and a **y-intercept** of 9.

$$y = -3x + 9$$

10 The equation of a line is $y = -8x - 5$. What is the **slope** of the line?

$y = mx + b$ where m is the slope. The slope is -8.