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 **output**.

True or false?

A true **B** false

2 The **input** of a function is often referred to as the *y*-value.

True or false?

A true
B false

3 The **function** $y = x + 2$ when evaluated for the input of **6**, gives an output of **4**.

True or false?

A true
B false

4 What is the **output** for the function, divide by **6** and add **7**, when the input is **48**?

A 1
B 14
C 15

5 V
3

A
B
C
D

7 V
fo
a

A 36, 40, 44
B 20, 22, 24
C 9, 10, 11
D 8, 10, 11

B $y = 2x$
C $y = 4x - 2$
D $y = x + 1$

Output, y	2	5	8	11

9 The table shown represents which **function**?

A $y = 2x - 1$
B $y = x - 5$
C $y = 2x - 5$
D $y = 2x - 7$

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

10 Roger rents a hockey rink for his hockey team. The cost is **$75** for the rink plus **$3** for each teammate. If x teammates show up at the hockey rink, which **function** would represent the cost, c, that Roger will have to pay?

A $c = \$75 - \$3x$
B $c = \$75 + \$3x$
C $c = \$3 + \$75x$
D $c = \$75 - \$3$

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Math G

ANSWER KEY

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**.

True or false?

A true **B** false

a

The **input** of a function is often referred to as the *y*-value.

True or false?

A true
B false

b

The **function** $y = x + 2$ when evaluated for the input of **6**, gives an output of **4**.

True or false?

A true
B false

b

What is the **output** for the function, divide by **6** and add **7**, when the input is **48**?

A 1
B 14
C 15
D 16

c

W
3

A
B
C
D

W
fc
a

B 20, 22, 24
C 9, 10, 11
D 8, 10, 11

D $y = x + 1$

The table shown represents which **function**?

A $y = 2x - 1$
B $y = x - 5$
C $y = 2x - 5$
D $y = 2x - 7$

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

d

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C $c = \$3 + \$75x$
D $c = \$75 - \$3$

b