

Name:

ANSWERS!

Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

In function notation, $y = 2x + 3$ becomes

Replace y with $f(x)$

Circle one →

$f(x) = 2x + 3$

$f(y) = 2x + 3$

$0 = 2x + 3$

Question 02

In function notation, how to do you say " $f(x) = 2x+3$ "

Circle one →

"f of x equals two x plus three"

"f x equals two x plus three"

Question 03

Part A

For an equation to be a function, every x (input) has _____ y (output)

Circle one →

Infinite

zero

only one

Vending machine metaphor still works!

Part B

In function notation, every x (input) has _____ $f(x)$ (output)

Circle one →

Infinite

zero

only one

Question 04

Given that $f(x) = 6x - 2$, evaluate the function for $f(4)$.

Answer:

22

$$\begin{aligned} f(x) &= 6x - 2 \\ f(4) &= 6(4) - 2 \\ f(4) &= 24 - 2 \end{aligned}$$

Question 05

Given that $f(x) = 6x - 2$, find the value of x for which $f(x) = 4$.

Answer:

1

$$\begin{aligned} f(x) &= 6x - 2 \\ 4 &= 6x - 2 \\ +2 & \quad +2 \\ 6 &= 6x \end{aligned}$$

Question 06

Given that $g(m) = m^2 - m$, evaluate the function for $g(-5)$.

Answer:

30

$$\begin{aligned} g(m) &= m^2 - m \\ g(-5) &= (-5)^2 - (-5) \\ g(-5) &= 25 + 5 \end{aligned}$$

Question 07

Given that $j(q) = q + 2$, evaluate the function for $j(5)$.

Answer:

7

$$\begin{aligned} j(q) &= q + 2 \\ j(5) &= 5 + 2 \end{aligned}$$

Question 08

Given that $j(q) = q + 2$, find the value of x for which $j(q) = 5$.

Answer:

3

$$\begin{aligned} j(q) &= q + 2 \\ 5 &= q + 2 \\ -2 & \quad -2 \\ 3 &= q \end{aligned}$$