



When a letter is used in algebra to represent a missing value it is called a variable.

$$63 + a = 79$$

Variable

$$45 + y = 59$$

Equation

The multiplication sign is not used in algebra. The number is always written in front of the variable.

The division sign is not used in algebra. A fraction line is used to show that you divide the top by the bottom.

An equation shows when two things are equal using the equals sign.

Determine the value of the variable in each equation.

A) $a + 5 = 9$

$a = \underline{\hspace{2cm}}$

B) $15 - c = 12$

$c = \underline{\hspace{2cm}}$

C) $\frac{121}{j} = 11$

$j = \underline{\hspace{2cm}}$

D) $9 + 15 = y$

$y = \underline{\hspace{2cm}}$

E) $\frac{45}{d} = 5$

$d = \underline{\hspace{2cm}}$

F) $10z = 100$

$z = \underline{\hspace{2cm}}$

G) $6 + a = 12$

$a = \underline{\hspace{2cm}}$

H) $7 - b = 2$

$b = \underline{\hspace{2cm}}$

I) $\frac{q}{8} = 5$

$q = \underline{\hspace{2cm}}$

J) $11 + 14 = c$

$c = \underline{\hspace{2cm}}$

K) $\frac{24}{d} = 3$

$d = \underline{\hspace{2cm}}$

L) $10e = 110$

$e = \underline{\hspace{2cm}}$

M) $4m = 32$

$m = \underline{\hspace{2cm}}$

N) $\frac{72}{n} = 9$

$n = \underline{\hspace{2cm}}$

O) $33 + 66 = p$

$p = \underline{\hspace{2cm}}$

P) $3s = 9$

$s = \underline{\hspace{2cm}}$

Q) $\frac{16}{h} = 1$

$h = \underline{\hspace{2cm}}$

R) $15 + 12 = q$

$q = \underline{\hspace{2cm}}$



$$5+r=14-3$$



$$11+4=3s$$



$$4+f=13-2$$



$$5+3=4d$$

$$r = \underline{\hspace{2cm}}$$

$$s = \underline{\hspace{2cm}}$$

$$f = \underline{\hspace{2cm}}$$

$$d = \underline{\hspace{2cm}}$$

Evaluate each expression.

$$a = 3, \quad b = 5, \quad c = 6$$

$$1. \quad a + 5$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$2. \quad 15 - c$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$3. \quad 4b$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$4. \quad \frac{18}{c}$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$5. \quad 20 - a$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$6. \quad 11b$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$7. \quad \frac{45}{b}$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$8. \quad a - 2$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$9. \quad a + b + c$$

$$\text{total} = \underline{\hspace{2cm}}$$

$$10. \quad \frac{c}{a}$$

$$\text{total} = \underline{\hspace{2cm}}$$



Riddle Me This Pre-Algebra

Solve for 'x'. Write the corresponding letter in the space below that matches your answer.



$$1. \quad 10 + x = 15$$

A

$$x = \underline{\hspace{2cm}}$$

$$2. \quad 2x + 7 = 9$$

I

$$x = \underline{\hspace{2cm}}$$

$$3. \quad 3 + 2x = 15$$

B

$$x = \underline{\hspace{2cm}}$$

$$4. \quad x - 5 = 3$$

K

$$x = \underline{\hspace{2cm}}$$

$$5. \quad 2x - 4 = 4$$

C

$$x = \underline{\hspace{2cm}}$$

$$6. \quad 5 + 3x = 14$$

M

$$x = \underline{\hspace{2cm}}$$

$$7. \quad 2 + 3x = 8$$

E

$$x = \underline{\hspace{2cm}}$$

$$8. \quad 3x - 9 = 12$$

R

$$x = \underline{\hspace{2cm}}$$

$$9. \quad 9 + x = 18$$

G

$$x = \underline{\hspace{2cm}}$$

$$10. \quad 11 + 2x = 31$$

S

$$x = \underline{\hspace{2cm}}$$

What do ghosts serve for dessert?



1



10



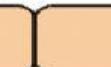
4



7



2



5



3