Pre-Algebra. Practice paper 1.

Total score: / 50

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

$63 + a = 79$

Variable

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

$45 + y = 59$

Equation

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

$3y = 12$

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

$\frac{20}{g} = 5$

Determine the value of the variable in each equation.

A) $a + 5 = 9$

$a =$ _____

B) $15 - c = 12$

$c =$ _____

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

$j =$ _____

D) $9 + 15 = y$

$y =$ _____

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

$d =$ _____

F) $10z = 100$

$z =$ _____

G) $6 + a = 12$

$a =$ _____

H) $7 - b = 2$

$b =$ _____

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

$q =$ _____

J) $11 + 14 = c$

$c =$ _____

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

$d =$ _____

L) $10e = 110$

$e =$ _____

M) $4m = 32$

$m =$ _____

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

$n =$ _____

O) $33 + 66 = p$

$p =$ _____

P) $3s = 9$

$s =$ _____

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

$h =$ _____

R) $15 + 12 = q$

$q =$ _____

★ $5 + r = 14 - 3$ ★ $11 + 4 = 3s$ ★ $4 + f = 13 - 2$ ★ $5 + 3 = 4d$

$r =$ _____ $s =$ _____ $f =$ _____ $d =$ _____

Evaluate each expression.

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

1.	$a + 5$	total =	**2.**	$15 - c$	total =
3.	$4b$	total =	**4.**	$\frac{18}{c}$	total =
5.	$20 - a$	total =	**6.**	$11b$	total =
7.	$\frac{45}{b}$	total =	**8.**	$a - 2$	total =
9.	$a + b + c$	total =	**10.**	$\frac{c}{a}$	total =



Riddle Me This Pre-Algebra

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



1. $10 + x = 15$	A	2. $2x + 7 = 9$	I
X =		X =	
3. $3 + 2x = 15$	B	4. $x - 5 = 3$	K
X =		X =	
5. $2x - 4 = 4$	C	6. $5 + 3x = 14$	M
X =		X =	
7. $2 + 3x = 8$	E	8. $3x - 9 = 12$	R
X =		X =	
9. $9 + x = 18$	G	10. $11 + 2x = 31$	S
X =		X =	

What do ghosts serve for dessert?

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1		10	4	7	2	5	3