



Solve equations with variables on both sides

1

What number can be put in the circle to make this equation correct?

$$\bigcirc + 9 = 15 - 2$$

A $\bigcirc = 5$	B $\bigcirc = 4$
C $\bigcirc = 6$	D $\bigcirc = 2$
E $\bigcirc = 1$	F $\bigcirc = 3$

2

Solve for the variable in the equation

$$9 \times b + 2 = 65$$

A $b = 7$	B $b = 5$
C $b = 8$	D $b = 10$
E $b = 9$	F $b = 4$

3

How many solutions does this system of linear equations have?



A Zero solutions	B One solution	C Infinitely many solutions
------------------	----------------	-----------------------------

4

The lines cross at one point

A $3x + 2y = -6$ $3x + 2y = -7$	B $3x + 3y = -8$ $3x + 4y = -2$
---------------------------------------	---------------------------------------

5

Infinitely many solutions

A $4x + y = -4$ $4x + y = 0$	B $3x + y = 6$ $9x + 3y = 18$
------------------------------------	-------------------------------------

6

Zero solutions

A $2(3x + 6) = 6x + 11$
B $2(2x + 2) = 4x + 4$

7

Solve for the variable in the equation

$$5z + 5 = 122 - 8z$$

A $z = 11$	B $z = 6$
C $z = 10$	D $z = 8$
E $z = 9$	F $z = 7$

8

What number can be put in the circle to make this equation correct?

$$3 \cdot \bigcirc + 7 = 43 - 9 \cdot \bigcirc$$

A $\bigcirc = 1$	B $\bigcirc = 4$
C $\bigcirc = 2$	D $\bigcirc = 5$
E $\bigcirc = 3$	F $\bigcirc = 0$



Solve equations with variables on both sides

9

What number can be put in the circle to make this equation correct?

$$8 \cdot \bigcirc = 52 - 5 \cdot \bigcirc$$

A $\bigcirc = 2$

B $\bigcirc = 4$

C $\bigcirc = 6$

D $\bigcirc = 3$

E $\bigcirc = 5$

F $\bigcirc = 7$

10

Solve for the variable in the equation

$$\frac{100}{5z} = 5$$

A $z = 3$

B $z = 7$

C $z = 2$

D $z = 6$

E $z = 4$

F $z = 5$

11

How many solutions does this linear equation have?

$$4(3x + 1) = 2x + 5$$

A One solution

B Zero solutions

C Infinitely many solutions

12

How many solutions does this system of linear equations have?

$$4x + 2y = -4$$

$$4x + 2y = -8$$

A One solution

B Infinitely many solutions

C Zero solutions