



Linear Equations

- 1 Is $x = -2$ a solution to this linear equation?

$$2(2x + 3) = 5x + 9$$

A

Yes

B

No

- 2 Which linear equation has this many solutions?

One solution

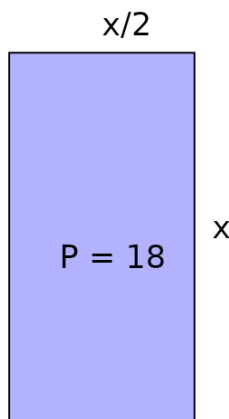
A

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

B

$$4(2x + 6) = 8x + 23$$

- 3 Solve for 'x', given this rectangle's dimensions



A

15

B

12

C

3

D

10

E

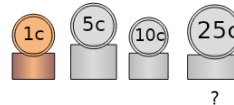
11

F

6

- 4 Some coins have a total value of \$2.35. There are the same number of Pennies, Nickels, and Dimes but a different number of Quarters. How many Quarters are there?

\$2.35



A

10

B

3

C

7

- 5 Find the equation that best represents this sentence

The length is twelve more than seven times the width.

A

$$l = 7w \times 12$$

B

$$l = 7w - 12$$

C

$$l = 12w + 7$$

D

$$l = 7w + 12$$

E

$$l = 7(w + 12)$$

- 6 Solve for the variable in the equation

$$\frac{108}{6y} = 3$$

A

$$y = 5$$

B

$$y = 8$$

C

$$y = 7$$

D

$$y = 4$$

E

$$y = 9$$

F

$$y = 6$$

- 7 Solve for the variable in the equation

$$2r + 9 = 19 - 3r$$

A

$$r = 5$$

B

$$r = 1$$

C

$$r = 3$$

D

$$r = 0$$

E

$$r = -1$$

F

$$r = 2$$



Linear Equations

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

$$3 \cdot \bigcirc + 2 = 20 - 3 \cdot \bigcirc$$

A	$\bigcirc = 4$	B	$\bigcirc = 6$
C	$\bigcirc = 2$	D	$\bigcirc = 3$
E	$\bigcirc = 0$	F	$\bigcirc = 5$

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

$$5 \cdot \bigcirc = 49 - 2 \cdot \bigcirc$$

A	$\bigcirc = 4$	B	$\bigcirc = 7$
C	$\bigcirc = 8$	D	$\bigcirc = 5$
E	$\bigcirc = 10$	F	$\bigcirc = 6$

- 10** How many solutions does this linear equation have?

$$3(4x + 1) = 12x + 2$$

A	One solution
B	Infinitely many solutions
C	Zero solutions

- 11** Solve for the variable in the equation

$$x + 7 = 11$$

A	$x = 2$	B	$x = 3$
C	$x = 7$	D	$x = 4$
E	$x = 5$	F	$x = 1$

- 12** Solve the one-step equation for x.

$$12 + x = 13$$

A	$x = 3$	B	$x = 0$
C	$x = 2$	D	$x = 1$

- 13** Solve for the variable in the equation

$$p - 2 = 7$$

A	$p = 10$	B	$p = 11$
C	$p = 12$	D	$p = 8$
E	$p = 7$	F	$p = 9$

- 14** Solve the two-step equation for x.

$$-5 + \frac{x}{9} = 5$$

A	$x = 90$	B	$x = 89$
C	$x = 92$	D	$x = 91$

- 15** Solve the two-step equation for x.

$$6x + 1 = 19$$

A	$x = 5$	B	$x = 2$
C	$x = 3$	D	$x = 4$



Linear Equations

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

$$9 \cdot \bigcirc - 5 = 67$$

- | | |
|------------------|-------------------|
| A $\bigcirc = 9$ | B $\bigcirc = 10$ |
| C $\bigcirc = 5$ | D $\bigcirc = 8$ |
| E $\bigcirc = 7$ | F $\bigcirc = 11$ |

- 17** Solve for the variable in the equation

$$z + 9 = 15 - 3$$

- | | |
|-----------|-----------|
| A $z = 6$ | B $z = 0$ |
| C $z = 1$ | D $z = 3$ |
| E $z = 2$ | F $z = 5$ |

- 18** Solve the two-step equation for x.

$$-1 + 6x = 71$$

- | |
|------------|
| A $x = 11$ |
| B $x = 13$ |
| C $x = 12$ |
| D $x = 14$ |

- 19** Solve the two-step equation for x.

$$-5 + \frac{x}{6} = 2$$

- | | |
|------------|------------|
| A $x = 42$ | B $x = 43$ |
| C $x = 44$ | D $x = 41$ |

- 20** Solve the two-step equation for x.

$$9 + 8x = 105$$

- | |
|------------|
| A $x = 12$ |
| B $x = 11$ |
| C $x = 14$ |
| D $x = 13$ |

- 21** Solve the two-step equation for x.

$$5 + \frac{x}{9} = 17$$

- | |
|-------------|
| A $x = 108$ |
| B $x = 109$ |
| C $x = 107$ |
| D $x = 110$ |

- 22** Solve the two-step equation for x.

$$12 + \frac{x}{3} = 21$$

- | | |
|------------|------------|
| A $x = 26$ | B $x = 27$ |
| C $x = 29$ | D $x = 28$ |