

**Identify equations with no solution****1**

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

$$7 \cdot \bigcirc - 4 = 6 + 5 \cdot \bigcirc$$

- | | |
|------------------|------------------|
| A $\bigcirc = 4$ | B $\bigcirc = 2$ |
| C $\bigcirc = 3$ | D $\bigcirc = 5$ |
| E $\bigcirc = 7$ | F $\bigcirc = 6$ |

2

Solve for the variable in the equation

$$3b + 6 = 69 - 4b$$

- | | |
|------------|------------|
| A $b = 6$ | B $b = 12$ |
| C $b = 11$ | D $b = 7$ |
| E $b = 8$ | F $b = 9$ |

3

One solution

- | |
|-------------------------|
| A $4(2x + 6) = 8x + 23$ |
| B $3(3x + 5) = 4x + 5$ |

4

How many solutions does this linear equation have?

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

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

5

Infinitely many solutions

- | |
|--------------------------|
| A $4(3x + 1) = 7x - 5$ |
| B $4(4x + 4) = 16x + 16$ |

6

How many solutions does this linear equation have?

$$2(4x + 4) = 8x + 13$$

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

7

Zero solutions

- | |
|------------------------|
| A $3(4x + 5) = 3x - 6$ |
| B $2(4x + 3) = 8x + 5$ |

8

How many solutions does this linear equation have?

$$2(4x + 1) = 8x + 2$$

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

**Identify equations with no solution****9**

One solution

A

$$2(2x + 2) = 6x - 7$$

B

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

10

How many solutions does this linear equation have?

$$3(4x + 2) = 6x + 4$$

A

Infinitely many solutions

B

Zero solutions

C

One solution

11

Infinitely many solutions

A

$$2(2x + 1) = 5x + 8$$

B

$$4(4x + 6) = 16x + 24$$

12

How many solutions does this linear equation have?

$$3(3x + 4) = 9x + 12$$

A

Infinitely many solutions

B

Zero solutions

C

One solution