

1. Solve for h.
 $h + 3 = 6$

2. Solve for m.
 $12 = m - 5$

3. Solve for w.
 $w = 8 - 3$

4. Solve for t.
 $t - 3 = 5$

5. Solve for j.
 $j + 8 = 15$

6. Solve for s.
 $3 + s = 7$

7. Solve for g.
 $5 = -2 + g$

8. Solve for p.
 $2 + p = 18$

9. Solve for k.
 $k - 3 = 1$

10. Solve for q.
 $q - 1 = 2$

KEYS

To solve for a variable, use inverse operations to undo the operations in the equation. Be sure to gather like terms and to do the same operation to both sides of the equation.

1. $h + 3 = 6$

$$h + 3 = 6$$

$$h + 3 - 3 = 6 - 3$$

$$h = 3$$

Subtract 3 from both sides

Simplify

2. $12 = m - 5$

$$12 = m - 5$$

$$12 + 5 = m - 5 + 5$$

$$17 = m$$

$$m = 17$$

Add 5 to both sides

Simplify

3. $w = 8 - 3$

$$w = 8 - 3$$

$$w = 5$$

Simplify

4. $t - 3 = 5$

$$t - 3 = 5$$

$$t - 3 + 3 = 5 + 3$$

$$t = 8$$

Add 3 to both sides

Simplify

5. $j + 8 = 15$

$$j + 8 = 15$$

$$j + 8 - 8 = 15 - 8$$

$$j = 7$$

Subtract 8 from both sides

Simplify

6. $3 + s = 7$

$$3 + s = 7$$

$$3 + s - 3 = 7 - 3$$

$$s = 4$$

Subtract 3 from both sides

Simplify

7. $5 = -2 + g$

$$\begin{aligned}5 &= -2 + g \\5 + 2 &= -2 + g + 2 && \text{Add 2 to both sides} \\7 &= g && \text{Simplify} \\g &= 7\end{aligned}$$

8. $2 + p = 18$

$$\begin{aligned}2 + p &= 18 \\2 + p - 2 &= 18 - 2 && \text{Subtract 2 from both sides} \\p &= 16 && \text{Simplify}\end{aligned}$$

9. $k - 3 = 1$

$$\begin{aligned}k - 3 &= 1 \\k - 3 + 3 &= 1 + 3 && \text{Add 3 to both sides} \\k &= 4 && \text{Simplify}\end{aligned}$$

10. $q - 1 = 2$

$$\begin{aligned}q - 1 &= 2 \\q - 1 + 1 &= 2 + 1 && \text{Add 1 to both sides} \\q &= 3 && \text{Simplify}\end{aligned}$$
