

Solving One-Step Equations Review & Practice

One Step Addition Example The Opposite of Addition is Subtraction $y + 14 = 20$ $\quad -14 \quad -14$ $y = 6 \checkmark$ The value which makes the equation true is 6.	ONE STEP SUBTRACTION EXAMPLE The Opposite of Subtraction is Addition $x - 120 = 80$ $\quad +120 \quad +120$ $x = 200 \checkmark$ The value which makes the equation true is 200.
Multiplication Example The Opposite of Multiplication is Division $3n = 12$ $\frac{\cancel{3}n}{\cancel{3}} = \frac{12}{3}$ $n = 4 \checkmark$ 3/3 cancels down to become 1/1 = 1 1n is simply "n" The value which makes the equation true is 4.	One Step Division Example The Opposite of Division is Multiplication. $\frac{k}{2} = 16$ $\frac{k}{\cancel{2}} \times \cancel{2} = 16 \times 2$ $k = 32 \checkmark$ k is divided by 2, so we need to multiply both sides by 2 2/2 cancels down to become 1/1 = 1 1k is simply "k" The value which makes the equation true is 32.

Solve each equation for the indicated variable.

1. $x - (-3) = 17$

2. $41 = w - 4$

3. $k - 8 = -19$

4. $t - 5 = 12$

5. $-2 + d = 97$

6. $-7 + x = -18$

7. $\frac{5}{8} = t - \frac{3}{8}$

8. $-\frac{3}{7} + c = -\frac{3}{7}$

9. $x - \frac{4}{7} = \frac{3}{7}$

10. $\frac{k}{9} = -8$

11. $\frac{x}{-12} = -4$

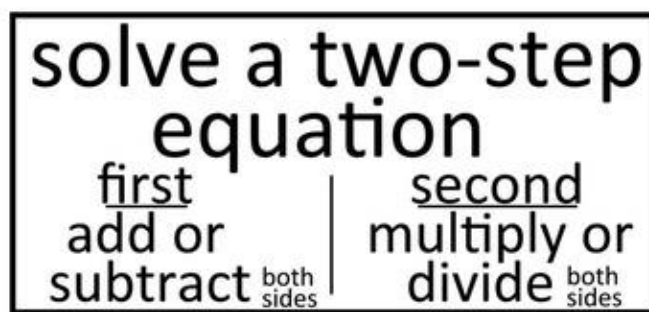
12. $-16 = \frac{t}{-2}$

13. $24x = -12$

14. $-y = -145$

15. $-7m = -49$

Solving Two Step Equations Review & Practice



Solve each equation for the indicated variable.

1. $4a + 3 = 11$

2. $8 = 3r - 1$

3. $42 = -2d + 6$

4. $3x + 0.3 = 3.3$

5. $15y + 31 = 61$

6. $9 - c = -13$

7. $\frac{x}{6} + 4 = 15$

8. $4 - \frac{m}{2} = 10$

9. $7y - 7 = 0$

10. $3t + 7 = 19$

11. $28 = 4x - 12$

12. $6h - 7 = 17$

13. $3x + 3 = 18$

14. $3t + 44 = 50$

15. $15 = \frac{c}{3} - 2$

16. $6 + 6x = 30$

17. $9 - 6x = 45$

18. $32 = 5 - 3t$

Solving Multi-Step Equations & Equations with Variables on Both Sides Review & Practice

Example: $3x + 2(2x - 1) = 33$

1. Use Distributive Property

$$3x + 4x - 2 = 33$$

2. Combine Like terms

$$7x - 2 = 33$$

3. Use Inverse Operations

$$\begin{array}{r} + 2 \quad + 2 \\ \hline 7x = 35 \\ \hline \cancel{7} \quad \cancel{7} \\ \hline x = 5 \end{array}$$

Solve each equation for the indicated variable.

1. $2(x - 7) = 10$

2. $\frac{m}{6} + 4 = 12$

3. $5(c + 2) = -20$

4. $12a + 5 - 8a = -1$

5. $m - 3 - 6m = -27$

6. $-4 + 7d + 13 = 33$

7. $b + 11 - 2b = 6$

8. $5j - 9j + 3 = -34$

9. $-2d - 5 - 2d = -9$

Equations, Equations, and more Equations...

Solve each equation for the given variable. Please circle, rectangle, or triangle your answer.

1. $4x - 7 = 37$

2. $3x = 6 - 9$

3. $8 - 9y = 35$

4. $7x - 12 = 2$

5. $8 - 12x = 32$

6. $0 = 25x + 75$

7. $4e + 16 = -12$

8. $3n - 9 = 9$

9. $3x + 12 + 5 = 35$

10. $9x - 3 = 24$

11. $5 - \frac{1}{2}x = -9$

12. $12 = \frac{2}{3}x - 2$

13. $13x + 50 = -54$

14. $\frac{x}{3} - 8 = -12$

15. $3 - \frac{1}{5}x = -7$

16. $7 - \frac{1}{9}k = 32$

17. $\frac{2x}{5} + 3 = 9$

18. $7 = -4m - 5$