

Solving Multi-Step Equations and Equations with Variables on Both Sides

Steps:

1. Simplify left side
 2. Simplify right side
 3. Get Variables to same side
 4. Move constants away
 5. Solve
- (Distribute & Combine)
- (Add or Subtract)
- (Inverse)

Solve.

1. $3x + 6 = 15$

2. $23 = -5x + 3$

3. $\frac{x}{3} + 11 = 29$

4. $2(a + 1) = 6$

$$5. \quad 8 + \frac{2n}{5} = 4$$

$$6. \quad 72 = 81 - n$$

$$7. \quad -2x - 7 = 5$$

$$8. \quad \frac{d - 4}{3} = 5$$

$$9. \quad \frac{3x + 1}{2} = -25$$

$$10. \quad -3(a - 4) = 9$$

$$11. \quad 5x + 2x - 2 = 5$$

$$12. \quad 6x - 3 = 2x + 13$$

$$13. \quad 2(x + 3) + 5x = 4x - 2(x - 1)$$

$$14. \quad 8 - 2(x + 1) = -3x + 1$$

