

Solving Two-Step Equations: Level 1

To solve an equation, get the variable alone on one side of the equation. You can use inverse operations help. Remember, whatever you do to one side of the equation you must also do to the other side.

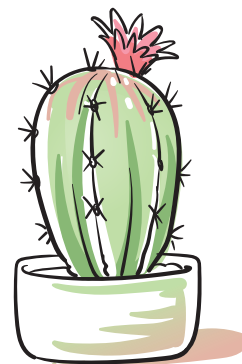
Let's try it! Solve $4x - 8 = 20$.

$$4x - 8 + 8 = 20 + 8 \quad \text{Add 8 to both sides of the equation.}$$

$$4x = 28 \quad \text{Simplify.}$$

$$\frac{4x}{4} = \frac{28}{4} \quad \text{Divide both sides of the equation by 4.}$$

$$x = 7 \quad \text{Simplify.}$$



Solve each equation.

$$3a - 7 = 26$$

$$a = 11$$

$$9f + 5 = 77$$

$$f = 8$$

$$2k - 20 = 40$$

$$k = 30$$

$$6b - 4 = 38$$

$$b = 7$$

$$10h + 58 = -2$$

$$h = -6$$

$$-4d + 17 = 65$$

$$d = -12$$

$$8m + 11 = -53$$

$$m = -8$$

$$5z - 1.75 = 8.25$$

$$z = 2$$

$$\frac{1}{2}n + 40 = 55$$

$$n = 30$$

$$-\frac{1}{4}c - 5 = 20$$

$$c = -100$$

$$4.8g + 9 = 33$$

$$g = 5$$

$$\frac{1}{3}p + 22 = 18$$

$$p = -12$$

$$1.2y + 0.52 = 7$$

$$y = 5.4$$

$$2.5t + 24 = 14$$

$$t = -4$$

$$5j + \frac{2}{3} = -\frac{1}{6}$$

$$j = -\frac{1}{6}$$