

# Solving One-Step Equations

To solve equations involving subtraction or addition, add the same number to or subtract the same number from each side of the equation.

**Examples**    **1** Solve  $k + 18 = -9$ .

$$k + 18 = -9$$

$$k + 18 - 18 = -9 - 18 \quad \text{Subtract 18 from each side.}$$

$$k = -27$$

**2** Solve  $c - 21 = 40$ .

$$c - 21 = 40$$

$$c - 21 + 21 = 40 + 21 \quad \text{Add 21 to each side.}$$

$$c = 61$$

To solve equations involving division or multiplication, multiply or divide each side of the equation by the same number.

**Examples**    **3** Solve  $-7t = -98$ .

$$-7t = -98$$

$$\frac{-7t}{-7} = \frac{-98}{-7} \quad \text{Divide each side by } -7.$$

$$t = 14$$

**4** Solve  $\frac{y}{6} = -3$ .

$$\frac{y}{6} = -3$$

$$6\left(\frac{y}{6}\right) = 6(-3) \quad \text{Multiply each side by 6.}$$

$$y = -18$$