

Solving Two-Step Equations

Solve each equation. Check.

① $2K + 3 = 7$

② $4x - 6 = 10$

③ $5w + 3 = -22$

④ $-16 = 2w - 4$

⑤ $\frac{1}{2}x + 1 = 3$

⑥ $\frac{2}{3}w + 3 = -5$

⑦ $\frac{w}{2} + 3 = -5$

⑧ $10 = -2 + \frac{x}{3}$

Application Solve & check.

- ⑨ A plumber charges \$50 to come to your house. She also charges you an additional \$20 per hour for the labor. When she is finished, your total bill is \$170.00. Solve the equation: $20n + 50 = 170$ to find the number of hours she worked.

Answers:

① $K = 2$

② $x = 4$

③ $w = -5$

④ $w = -6$

⑤ $x = 4$

⑥ $w = -12$

⑦ $w = -16$

⑧ $x = 36$

⑨ $n = 6$ hours