

# 0.1 Solving Simple Equations Practice Answers

Directions: Solve for the unknown variable. Show your work as it was described in the video.

1. $15 = 2x - 10$ $+10$ $\frac{25}{2} = \frac{2x}{2}$ $12.5 = x$	2. $15 + 2x = -10$ $-15$ $\frac{2x}{2} = \frac{-25}{2}$ $x = -12.5$	3. $6 \cdot 80 = \frac{w}{6} \cdot 6$ $480 = w$
4. $6 \cdot \frac{g+2}{6} = 8.5 \cdot 6$ $g+2 = 51$ $g = 49$	5. $\frac{g}{6} + 2 = 8.5$ $-\frac{2}{-2}$ $6 \cdot \frac{g}{6} = 6.5 \cdot 6$ $g = 39$	6. $d - 5 = 15$ $+5$ $d = 20$
7. $3k - 6 = 12$ $+6$ $\frac{3k}{3} = \frac{18}{3}$ $k = 6$	8. $6h - 3 = 57$ $+3$ $\frac{6h}{6} = \frac{60}{6}$ $h = 10$	9. $5 - \frac{g}{6} = 15$ $+5$ $-\frac{g}{6} = 20$ <i>Put negative in Bottom</i> $-6 \cdot \frac{g}{6} = 20 \cdot -6$ $g = -120$
10. $4 \cdot 3 = \frac{q-12}{4} \cdot 4$ $12 = q - 12$ $+12$ $24 = q$	11. $-42 = 6 - 8h$ $-6$ $\frac{-48}{-8} = \frac{-8h}{-8}$ $6 = h$	12. $9.9 = \frac{d}{4.4} + 1.1$ $-1.1$ $8.8 = \frac{d}{4.4}$ $38.72 = d$
13. $-\frac{p}{6} = 4$ <i>Put negative in Bottom</i> $-6 \cdot \frac{p}{6} = 4 \cdot -6$ $p = -24$	14. $0.8 - t = 4.1$ $-0.8$ $\frac{-t}{-1} = \frac{3.3}{-1}$ $t = -3.3$	15. $32 = 12z - 26z$ $32 = -14z$ $\frac{32}{-14} = \frac{-14z}{-14}$ $z = \frac{32}{-14} = -\frac{16}{7}$
16. $(0.8) \cdot -9 = \frac{3d}{0.8} \cdot (0.8)$ $-7.2 = \frac{3d}{3}$ $-2.4 = d$	17. $5g - 10 + 3g = 0$ $8g - 10 = 0$ $+10$ $8g = 10$ $g = \frac{10}{8} = \frac{5}{4}$	18. $42 = \frac{d}{0.1} - 5$ $+5$ $(0.1) \cdot 47 = \frac{d}{0.1} \cdot (0.1)$ $4.7 = d$

