Solving Two-Step Equations - SHOW ALL YOUR STEPS

(1) $4y + 1 = 13$

$-1 \quad -1$

$\frac{4y}{4} = \frac{12}{4}$

$y = 3$

CHECK

$4(3) + 1 = 13$

$12 + 1 = 13$ ✓

(2) $6x + 2 = 26$

$-2 \quad -2$

$\frac{6x}{6} = \frac{24}{6}$

$x = 4$

CHECK

$6(4) + 2 = 26$

$24 + 2 = 26$ ✓

(3) $-3 = 5k + 7$

$-7 \quad -7$

$\frac{-10}{5} = \frac{5k}{5}$

$-2 = k$

CHECK

$-3 = 5(-2) + 7$

$-3 = -10 + 7$ ✓

(4) $\frac{2}{3}n + 4 = -26$

$-4 \quad -4$

$\frac{3}{2} \cdot \frac{2}{3}n = -30 \cdot \frac{3}{2}$

$n = -45$

CHECK

$\frac{2}{3}(-45) + 4 = -26$

$-30 + 4 = -26$ ✓

(5) $7 = -3c - 2$

$+2 \quad +2$

$\frac{9}{-3} = \frac{-3c}{-3}$

$-3 = c$

CHECK

$7 = -3(-3) - 2$

$7 = 9 - 2$ ✓

(6) $-8p + 3 = -29$

$-3 \quad -3$

$\frac{-8p}{-8} = \frac{-32}{-8}$

$p = 4$

CHECK

$-8(4) + 3 = -29$

$-32 + 3 = -29$ ✓

(7) $-5 = -5t - 5$

$+5 \quad +5$

$\frac{0}{-5} = \frac{-5t}{-5}$

$0 = t$

CHECK

$-5 = -5(0) - 5$

$-5 = 0 - 5$

$-5 = -5$ ✓

(8) $-9r + 12 = -24$

$-12 \quad -12$

$\frac{-9r}{-9} = \frac{-36}{-9}$

$r = 4$

CHECK

$-9(4) + 12 = -24$

$-36 + 12 = -24$ ✓

(9) $11 + \frac{7}{9}n = 4$

$-11 \quad -11$

$\frac{9}{7} \cdot \frac{7}{9}n = -7 \cdot \frac{9}{7}$

$n = -9$

CHECK

$11 + \frac{7}{9} \cdot \frac{-9}{1} = 4$

$11 + -7 = 4$ ✓

(10) $35 = 7 + 4b$

$-7 \quad -7$

$\frac{28}{4} = \frac{4b}{4}$

$7 = b$

CHECK

$35 = 7 + 4(7)$

$35 = 7 + 28$ ✓

(11) $-15 + \frac{4}{5}p = 9$

$+15 \quad +15$

$\frac{5}{4} \cdot \frac{4}{5}p = 24 \cdot \frac{5}{4}$

$p = 6 \cdot 5$

$p = 30$

CHECK

$-15 + \frac{4}{8}(30) = 9$

$-15 + 24 = 9$ ✓

(12) $49 = 16 + 3y$

$-16 \quad -16$

$\frac{33}{3} = \frac{3y}{3}$

$11 = y$

CHECK

$49 = 16 + 3(11)$

$49 = 16 + 33$ ✓

(13) $2 = \frac{4}{4}t - 14$

$+14 \quad +14$

$\frac{16}{4} = \frac{4t}{4}$

$4 = t$

CHECK

$2 = 4(4) - 14$

$2 = 16 - 14$ ✓

(14) $-9x - 10 = 62$

$+10 \quad +10$

$\frac{-9x}{-9} = \frac{72}{-9}$

$x = -8$

CHECK

$-9(-8) - 10 = 62$

$72 - 10 = 62$ ✓

(15) $30 = 12x - 18$

$+18 \quad +18$

$\frac{48}{12} = \frac{12x}{12}$

$4 = x$

CHECK

$30 = 12(4) - 18$

$40 = 48 - 18$ ✓

(16) $7 + 4g = 7$

$-7 \quad -7$

$\frac{4g}{4} = \frac{0}{4}$

$g = 0$

CHECK

$7 + 4(0) = 7$

$7 + 0 = 7$ ✓