

Multi-Step Equations

Solve each equation.

1) $-20 = -4x - 6x$

$$\begin{aligned} -20 &= -4x - 6x \\ -20 &= -10x \\ -20/10 &= x \end{aligned} \quad \Rightarrow \quad \underline{x = 2}$$

3) $8x - 2 = -9 + 7x$

$$\begin{aligned} 8x - 7x &= -9 + 2 \\ x &= -7 \end{aligned}$$

2) $6 = 1 - 2n + 5$

$$\begin{aligned} 6 - 1 - 5 &= -2n \\ 0 &= -2n \\ 0/-2 &= n \\ n &= \underline{2} \end{aligned}$$

5) $4m - 4 = 4m$

7) $5p - 14 = 8p + 4$

9) $-8 = -(x + 4)$

11) $14 = -(p - 8)$

4) $a + 5 = -5a + 5$

6) $p - 1 = 5p + 3p - 8$

8) $p - 4 = -9 + p$

10) $12 = -4(-6x - 3)$