

## Multi-Step Equations

Solve each equation.

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

$$\mathbf{x = 2}$$

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

$$\mathbf{x = -7}$$

5)  $\frac{x}{3} = x + 4$

$$\mathbf{x = -6}$$

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

$$\mathbf{p = -6}$$

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

$$\mathbf{x = 4}$$

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

$$\mathbf{p = -6}$$

13)  $-18 - 6k = 6(1 + 3k)$

$$\mathbf{k = -1}$$

15)  $2(4x - 3) - 8 = 4 + 2x$

$$\mathbf{x = 3}$$

17)  $-(1 + 7x) - 6(-7 - x) = 36$

$$\mathbf{x = 5}$$

19)  $24a - 23 = -5(1 - 6a)$

$$\mathbf{a = -3}$$

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

$$\mathbf{n = 0}$$

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

$$\mathbf{a = 0}$$

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

$$\mathbf{p = 1}$$

8)  $\frac{1}{2} + w = 8 - \frac{3w}{2}$

$$\mathbf{w = 3}$$

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

$$\mathbf{x = 0}$$

12)  $-(7 - 4x) = 9$

$$\mathbf{x = 4}$$

14)  $5n + 34 = -2(1 - 7n)$

$$\mathbf{n = 4}$$

16)  $3n - 5 = -8(6 + 5n)$

$$\mathbf{n = -1}$$

18)  $-3(4x + 3) + 4(6x + 1) = 43$

$$\mathbf{x = 4}$$

20)  $-5(1 - 5x) + 5(-8x - 2) = -4x - 8x$

$$\mathbf{x = -5}$$