

## Multi-Step Equations Practice

Solve each equation.

1)  $-3 = -6r + 5r$

2)  $6 = 2m - 4m$

3)  $-17 = 4r - 1 - 4$

4)  $5r + 5r = 0$

5)  $4x - 31 = -3(1 - 6x)$

6)  $-5x + 14 = -(x - 6)$

7)  $-8(1 + 6n) = 32 - 8n$

8)  $-(1 + 8n) = -4 - 5n$

9)  $\frac{8}{3}n + 2 + \frac{2}{3}n = -\frac{52}{9}$

10)  $-\frac{19}{6} = \frac{3}{2}n + \frac{5}{3}n$

11)  $\frac{29}{3} = m + \frac{8}{3} + 2m$

12)  $-\frac{4}{3}x + 2x = 0$

$$13) 4(p - 1) = -4(1 + 2p)$$

$$14) -7(x - 6) = -8(-12 + 2x)$$

**Solve each equation for the indicated variable.**

$$15) g = 4a + 2, \text{ for } a$$

$$16) u = -4 + 2x, \text{ for } x$$

$$17) u = 2x + 1, \text{ for } x$$

$$18) u = \frac{3a}{2}, \text{ for } a$$

$$19) am = n + p, \text{ for } a$$

$$20) am = n - p, \text{ for } a$$

$$21) ca = dr, \text{ for } a$$

$$22) \frac{a}{m} = \frac{p}{n}, \text{ for } a$$

$$23) ua = \frac{a + b}{k}, \text{ for } a$$

$$24) z + mx = yx, \text{ for } x$$

$$25) g + cx = yx, \text{ for } x$$

$$26) z = \frac{a + b}{ma}, \text{ for } a$$