

Multi-Step Equations

Solve each equation.

1) $6a + 5a = -11$

2) $-6n - 2n = 16$

3) $4x + 6 + 3 = 17$

4) $0 = -5n - 2n$

5) $6r - 1 + 6r = 11$

6) $r + 11 + 8r = 29$

7) $-10 = -14v + 14v$

8) $-10p + 9p = 12$

9) $42 = 8m + 13m$

10) $a - 2 + 3 = -2$

11) $18 = 3(3x - 6)$

12) $30 = -5(6n + 6)$

$$13) \ 37 = -3 + 5(x + 6)$$

$$14) \ -13 = 5(1 + 4m) - 2m$$

$$15) \ 4(-x + 4) = 12$$

$$16) \ -2 = -(n - 8)$$

$$17) \ -6(1 - 5v) = 54$$

$$18) \ 8 = 8v - 4(v + 8)$$

$$19) \ 10(1 + 3b) = -20$$

$$20) \ -5n - 8(1 + 7n) = -8$$

$$21) \ 8(4k - 4) = -5k - 32$$

$$22) \ -8(-8x - 6) = -6x - 22$$

$$23) \ 8(1 + 5x) + 5 = 13 + 5x$$

$$24) \ -11 - 5a = 6(5a + 4)$$

$$25) -5(4x - 2) = -2(3 + 6x)$$

$$26) 5(2x + 6) = -4(-5 - 2x) + 3x$$

Multi-Step Equations

Solve each equation.

1) $6a + 5a = -11$

 $\{-1\}$

2) $-6n - 2n = 16$

 $\{-2\}$

3) $4x + 6 + 3 = 17$

 $\{2\}$

4) $0 = -5n - 2n$

 $\{0\}$

5) $6r - 1 + 6r = 11$

 $\{1\}$

6) $r + 11 + 8r = 29$

 $\{2\}$

7) $-10 = -14v + 14v$

No solution.

8) $-10p + 9p = 12$

 $\{-12\}$

9) $42 = 8m + 13m$

 $\{2\}$

10) $a - 2 + 3 = -2$

 $\{-3\}$

11) $18 = 3(3x - 6)$

 $\{4\}$

12) $30 = -5(6n + 6)$

 $\{-2\}$

$$13) \ 37 = -3 + 5(x + 6)$$

$\{2\}$

$$14) \ -13 = 5(1 + 4m) - 2m$$

$\{-1\}$

$$15) \ 4(-x + 4) = 12$$

$\{1\}$

$$16) \ -2 = -(n - 8)$$

$\{10\}$

$$17) \ -6(1 - 5v) = 54$$

$\{2\}$

$$18) \ 8 = 8v - 4(v + 8)$$

$\{10\}$

$$19) \ 10(1 + 3b) = -20$$

$\{-1\}$

$$20) \ -5n - 8(1 + 7n) = -8$$

$\{0\}$

$$21) \ 8(4k - 4) = -5k - 32$$

$\{0\}$

$$22) \ -8(-8x - 6) = -6x - 22$$

$\{-1\}$

$$23) \ 8(1 + 5x) + 5 = 13 + 5x$$

$\{0\}$

$$24) \ -11 - 5a = 6(5a + 4)$$

$\{-1\}$

$$25) -5(4x - 2) = -2(3 + 6x)$$

$\{2\}$

$$26) 5(2x + 6) = -4(-5 - 2x) + 3x$$

$\{10\}$