

## Solving Two-Step Equations with Integers



$$3x + 6 = 18$$

$$3x + 6 - 6 = 18 - 6$$

$$3x = 12$$

$$x = \frac{12}{3} = 4$$

### Tip

"Undo" all operations by performing the opposite operation.

Solve the equations. Write the answers in the cross-number puzzle.

#### Across

1.  $3x - 9 = -12$
2.  $-5x - 2 = -107$
3.  $7x + 9 = 16$
4.  $\frac{-x}{2} - 3 = 5$
5.  $3x - 1 = -13$
6.  $\frac{x}{4} - 2 = -10$
7.  $42 - 2x = 82$
8.  $3x + 3 = 6$
9.  $-10x - 40 = -50$
10.  $-9x - 12 = 177$
11.  $\frac{x}{12} - 4 = 20$

#### Down

1.  $2x + 8 = -16$
2.  $\frac{x}{3} + 1 = 9$
3.  $\frac{x}{4} - 1 = 3$
4.  $3x + 9 = -27$
5.  $17 + 2x = -63$
6.  $-5x - 6 = 144$
7.  $-6x - 15 = -81$
8.  $\frac{x}{-3} + 2 = -4$
9.  $\frac{x}{8} + 6 = 3$

