

# Reteaching 1-6

## Solving Equations by Adding and Subtracting

To solve one-step equations:

- ① Use opposite, or inverse, operations to isolate the variable.
- ② Simplify.
- ③ Check by substituting your answer for the variable.

Solve and check each equation.

$$x + 7 = 34$$

$$x + 7 - 7 = 34 - 7 \quad \leftarrow \text{Subtract 7 from each side.}$$

$$x = 27 \quad \leftarrow \text{Simplify.}$$

Check:  $x + 7 = 34$

$$27 + 7 \stackrel{?}{=} 34$$

$$34 = 34 \checkmark$$

$$n - 5 = 37$$

$$n - 5 + 5 = 37 + 5 \quad \leftarrow \text{Add 5 to each side.}$$

$$n = 42 \quad \leftarrow \text{Simplify.}$$

Check:  $n - 5 = 37$

$$42 - 5 \stackrel{?}{=} 37$$

$$37 = 37 \checkmark$$

Show your steps to solve each equation. Then check.

1.  $n + 5 = 11$

$$n + 5 - \square = 11 - \square$$

$$n = \square$$

Check:  $n + 5 = 11$

$$\square + 5 \stackrel{?}{=} 11$$

$$\square = 11$$

2.  $13 + b = 27$

$$13 + b - \square = 27 - \square$$

$$b = \square$$

Check:  $13 + b = 27$

$$13 + \square \stackrel{?}{=} 27$$

$$\square = 27$$

3.  $y - 18 = 24$

\_\_\_\_\_

\_\_\_\_\_

Check: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Solve.

4.  $6 = f + 12$

$$f = \underline{\hspace{2cm}}$$

5.  $-18 = s + (-23)$

$$s = \underline{\hspace{2cm}}$$

6.  $w + 4 = \frac{1}{2}$

$$w = \underline{\hspace{2cm}}$$

7.  $b - 29 = -3$

$$b = \underline{\hspace{2cm}}$$

8.  $9 = k + 17$

$$k = \underline{\hspace{2cm}}$$

9.  $14 + m = -7$

$$m = \underline{\hspace{2cm}}$$

10.  $27 = j - 13$

$$j = \underline{\hspace{2cm}}$$

11.  $-14 + t = -5$

$$t = \underline{\hspace{2cm}}$$

12.  $x - 7 = -24$

$$x = \underline{\hspace{2cm}}$$