

# Assignment

## Write

Describe what it means to solve an equation.

## Remember

When solving an equation, equality must be maintained. What is done to one expression must be done to the equivalent expression to maintain equality.

## Practice

Solve each equation using a double number line.

1.  $4x + 12 = 24$
2.  $-8x + 25 = -15$
3.  $-5x - 12 = 18$
4.  $40x + 55 = 695$
5.  $-8 = 2x - 14$
6.  $11x + 13 = -9$

## Stretch

What operation(s) could you use to solve the equation  $x^2 + 5 = 86$ . What is the solution?

## Review

1. During the summer, Matthew and Devan started their own business mowing lawns for people in the Lake Section. Before starting any work, Matthew spends \$15 to fill up the gas tank for the lawnmower. The boys agree that each person will earn the same amount after Matthew is reimbursed the money he spent for gas. After a week of work, the boys earn a total of \$243. Matthew filled up the gas tank just once. How much did each boy earn?
  - a. Draw a bar model to represent the situation.
  - b. Write an equation to represent the situation.
  - c. Use the model to solve the problem.
2. Evaluate each algebraic expression for the variable.
  - a.  $9g + 5$ , for  $g = 1.5$
  - b.  $\frac{2x+3}{4}$ , for  $x = 1$
3. Determine each product.
  - a.  $-6.2(9.1)$
  - b.  $-0.03(-15)$