

Lesson 8-1 • Apply Day

Reinforce Understanding

Writing Equations

I can write an equation for a real situation and check whether a given value is a solution by substituting it.

Worked model

A baker made 64 rolls. Some were sold, and 27 rolls were left. How many rolls were sold?

1. Name the unknown: let r = the rolls sold. Rolls made – rolls sold = rolls left.
2. Write the equation: $64 - r = 27$.
3. Estimate and test $r = 35$. That leaves 29 rolls, which is more than 27.
4. Revise upward and test $r = 37$. That leaves exactly 27, so both sides match.

Answer: $r = 37$, so the baker sold 37 rolls.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Write an equation: a number x plus 2 equals 4.

Complete each step, then write the final answer.

Algebraic Balance Model

1. Use x for the unknown: ____.
2. “plus 2” becomes ____.
3. Write the equation: ____.

Answer: _____

2. Write an equation: a number x plus 3 equals 6.

Complete each step, then write the final answer.

Algebraic Balance Model

1. Use x for the unknown: ____.
2. “plus 3” becomes ____.
3. Write the equation: ____.

Answer: _____

3. Write an equation: a number x plus 4 equals 8.

Complete each step, then write the final answer.

Algebraic Balance Model

1. Use x for the unknown: ____.
2. “plus 4” becomes ____.
3. Write the equation: ____.

Answer: _____