## **Lesson 9** Reteach

## Problem Solving: Use Logical Reasoning

Six teams are competing in a volleyball tournament at the school. Each team has 6 players. Some teams brought 1 extra player in case someone is injured. There are 39 players at the tournament. How many teams brought an extra player?

Stop 1	What facts do you know?
Step 1 Understand	What facts do you know?  There are 6 teams.  Each team has 6 players.  Some teams brought 1 extra player.  There are 39 players at the tournament.  What do you need to find?  I need to find the number of teams that brought an extra player.
Step 2 Plan	Make a plan.  I will use logical reasoning to solve the problem.  I can write an expression to help me find the answer.
Step 3 Solve	Carry out your plan.  I will use the facts I know to write an expression. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Step 4 Check	Make sure your answer is reasonable.  I will use inverse operations to check my answer. $39 - 3 = 36$ ; $36 \div 6 = 6$ .  So, the answer makes sense.

## **Lesson 9** Reteach

Problem Solving: Use Logical Reasoning (continued)

Use logical reasoning to solve.

- 1. Maya and three friends are going to see a movie. Each ticket costs \$6. Each person also bought a small bag of popcorn. If the friends spend a total of \$32, how much does each bag of popcorn cost?
- 2. Cathy, Leon, and Elisa are eating lunch. One has a ham sandwich, one has a peanut butter sandwich, and one has a cheese sandwich. Leon and Cathy do not eat meat. Cathy is allergic to peanuts. Which sandwich does each person eat?
- **3.** Fire Station 5 has twice as many fire trucks as Fire Station 9. There are a total of 18 fire trucks. How many fire trucks does Fire Station 9 have?
- **4.** Miss Pham has \$15 to buy pencils and rulers for her class. The pencils cost \$1 each and the rulers cost \$2 each. If she buys 4 rulers, how many pencils can she buy?
- **5.** Wesley and Sonia have 15 library books altogether. Sonia has 3 fewer books than Wesley. How many books does each have?