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# 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?

<b>Step 1</b> 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.
<b>Step 2</b> Plan	Make a plan.
	I will use logical reasoning to solve the problem. I can write an expression to help me find the answer.
<b>Step 3</b> Solve	Carry out your plan. I will use the facts I know to write an expression. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Step 4	Make sure your answer is reasonable.
Check	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.

 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?

Each bag of popcorn costs \$2.

**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?

Cathy eats cheese; Leon eats peanut butter; and Elisa eats ham.

**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?

#### 6 fire trucks

**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?

#### 7 pencils

**5.** Wesley and Sonia have 15 library books altogether. Sonia has 3 fewer books than Wesley. How many books does each have?

Wesley, 9 books; Sonia, 6 books