**Make sure your answer is reasonable.**

You can use addition to check your answer.

or 1 whole

So, the answer is reasonable.

**Carry out your plan.**

You know that Ms. Alvarez spent of her money on the ticket. Take away from one whole.

1 =

You know that Ms. Alvarez spent of her money for popcorn.

Subtract from .

So, Ms. Alvarez spent of her money on a bottle of water.

**What facts do you know?**

Ms. Alvarez bought water, popcorn, and a ticket. Ms. Alvarez spent of her money on popcorn.

Ms. Alvarez spent of her money on a ticket.

**What do you need to find?**

What fraction of her money did she spend on the bottle of water?

Ms. Alvarez went to the movie theater. She bought a bottle of water, a box of popcorn, and a ticket. She spent of her money on popcorn and of her money on the ticket. What fraction of her money did she spend on the bottle of water?

**Reteach**

**Step 4**

Check

**Step 3**

Solve

**Make a plan.**

I will start with the total amount Ms. Alvarez spent and work backward to find the amount she spent on water.

**Step 2**

Plan

**Step 1**

Understand

**Grade 4 • Chapter 9** Operations with Fractions

**75**

*Problem Solving: Work Backward*

**Lesson 5**

Name Date

Kenji jogged around the block times. The rectangular block has a length of 120 yards and width of 90 yards. How many yards did he jog in all?

Stefan spent of his money on a ticket to the baseball game. He then spent $5 on a hot dog and a soda. He has $3 in his wallet now. How much money did Stefan start with?

Kim has three kinds of state quarters. Some of them are Georgia quarters. South Dakota quarters make up of her collection. New York quarters make up of her collection. What fraction of Kim’s collection are the Georgia quarters?

Andrew worked on his painting Monday, Tuesday, and Wednesday. Tuesday he painted for of an hour, and Wednesday he painted   
for of an hour. So far, Andrew has painted a total of 1 hour.   
What fraction of an hour did Andrew paint on Monday?

**Grade 4 • Chapter 9** Operations with Fractions

**76**

Joan hiked the Lonesome Lake Trail, which took 2 hours 15

minutes. The it took 4 hours 30 minutes to hike the Greenleaf

Trail. She finished hiking at 5:15 P.M. What time did she begin?

**5.**

**4.**

**3.**

**2.**

**1.**

**Solve each problem by working backward.**

*(continued)*

*Problem Solving: Work Backward*

**Reteach**

**Lesson 5**

Name Date