

# Lesson 5 Multi-Step Problem Solving

## Multi-Step Example

The table shows the makeup of the cheese tray at the DeSilva family reunion. If the family eats  $6\frac{5}{6}$  pounds of the cheese, how many pounds of cheese remain on the tray? **7.NS.3, MP 1**

Type of Cheese	Amount (lb.)
Cheddar	$3\frac{1}{2}$
Provolone	$2\frac{1}{2}$
Swiss	$2\frac{1}{4}$

- (A) 1 pound
- (B)  $1\frac{5}{12}$  pound
- (C)  $1\frac{1}{2}$  pound
- (D)  $2\frac{7}{12}$  pound

Use a problem-solving model to solve this problem.

### 1 Understand

Read the problem. Circle the information you know. Underline what the problem is asking you to find.

### 2 Plan

What will you need to do to solve the problem? Write your plan in steps.

**Step 1** Determine the amount of cheese on the tray by \_\_\_\_\_ the mixed numbers.

**Step 2** \_\_\_\_\_ the weight of cheese that was eaten from the original amount on the cheese tray.

### 3 Solve

Use your plan to solve the problem. Show your steps. Determine the amount of cheese on the tray. Then subtract.

$3\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{4} = \underline{\hspace{2cm}}$  Add.

$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$  Subtract.

There were \_\_\_\_\_ pounds remaining on the cheese tray.

The correct answer is \_\_\_\_\_. Fill in that answer choice.

**Read to Succeed!**

When subtracting the mixed numbers, be sure to rename them using the LCD before trying to subtract.

### 4 Check

How do you know your solution is accurate?

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# Lesson 5 *(continued)*

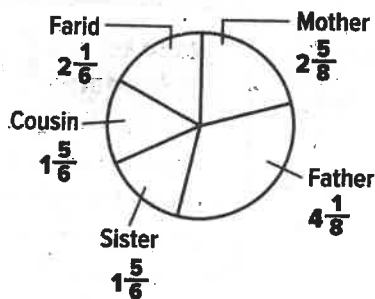
Use a problem-solving model to solve each problem.

- 1 The table shows Lily's length from the time she was born. How many more inches did she grow during the first month than during her second month? **7.NS.3, MP 1**

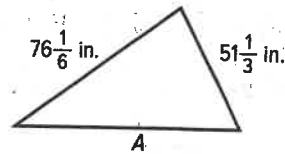
Age	Length (in.)
Birth	$19\frac{3}{4}$
1 Month	$22\frac{1}{4}$
2 Month	$23\frac{1}{4}$

- (A)  $\frac{3}{4}$  inch  
 (B)  $1\frac{1}{4}$  inches  
 (C)  $1\frac{1}{2}$  inches  
 (D)  $3\frac{1}{2}$  inches

- 3 Farid's family took a road trip. The circle graph shows the part of the trip that each family member drove. What fraction more of the trip did his parents drive than the rest of the family combined? **7.NS.3, MP 1**



- 2 The side measures for two sides of a triangle are shown. What is the measure, in inches, of side A if the perimeter of the triangle is 180 inches? **7.NS.3, MP 4**



- 4 **H.O.T. Problem** A point is plotted on a coordinate grid at  $-7\frac{2}{3}, -11\frac{1}{2}$ . A second point is plotted 9 units to the right and  $2\frac{2}{3}$  units down. What are the coordinates of the second point? Is it in a different quadrant than the first point? Explain your reasoning. **7.NS.3, MP 2**

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