

# Homework & Practice 2-6

## Reasoning

### Another Look!

In a week, a farmer collected 3,978 red apples and 2,504 green apples. He sold a total of 4,856 apples. He took the rest of the apples to the Farmer's Market. How many apples did the farmer have left for the Farmer's Market?

**Tell how you can use quantitative reasoning to find the answer.**

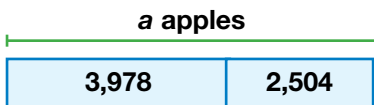
- I can identify the quantities given.
- I can draw diagrams to show relationships.
- I can give the answer using the correct unit.

**Identify quantities and the relationships between them to solve.**

When you use **reasoning**, you show how quantities are related.



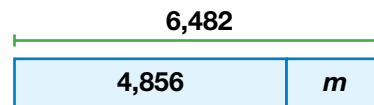
First find how many apples the farmer collected.



$$3,978 + 2,504 = 6,482$$

The farmer collected 6,482 apples.

Find how many apples were left for the Farmer's Market.



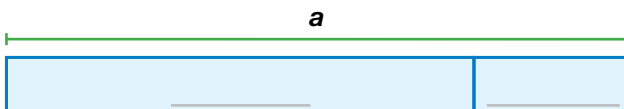
$$6,482 - 4,856 = 1,626$$

1,626 apples were left.

### © MP.2 Reasoning

A census says that there were 659,000 French Creole speakers in the United States. There were 186,000 more Arabic speakers than French Creole speakers. How many Arabic speakers were there? Use Exercises 1–2 to answer the question.

1. What quantities are given in the problem, and what do the numbers mean?
2. What is the relationship between the quantities? Complete the bar diagram to find  $a$ , the number of Arabic speakers. Write and solve an equation.



**Music**

The table shows how many times a song was downloaded the first four days it was on sale. How many more times was it downloaded the first day than on days 3 and 4 combined?

Day	Times Downloaded
1	313,280
2	270,463
3	106,548
4	98,273

3. **MP.2 Reasoning** What quantities are given in the problem and what do the numbers mean?

4. **MP.1 Make Sense and Persevere** What strategy can you use to solve the problem?

5. **MP.1 Make Sense and Persevere** What hidden question must be answered first?

6. **MP.4 Model with Math** Complete the bar diagram to show how to represent the hidden question. Then, write and solve an equation.

7. **MP.4 Model with Math** How many more times was the song downloaded the first day than on days 3 and 4 combined? Complete the bar diagram and write and solve an equation.

When you use **reasoning**, you identify the quantities given and their relationships.

