Practice Video Tools Games

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.

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

Identify quantities and the relationships between them to solve.

First find *a*, the number of apples the farmer collected.
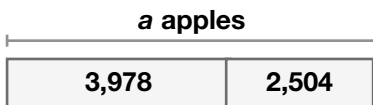
a apples	
3,978	2,504

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

The farmer collected 6,482 apples.

Then find *m*, the number of apples left for the Farmer's Market.
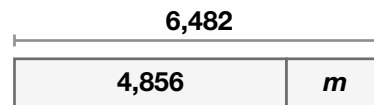
| 6,482	
4,856	*m*

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

1,626 apples were left.

Reasoning

A census said 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.

a	
_____	_____
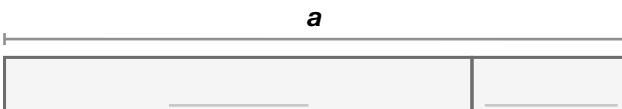
Music

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 on days 1 and 2 combined than on days 3 and 4 combined?

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

3. Reasoning What quantities are given in the problem and what do the numbers mean? MP.2.1

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

4. Make Sense and Persevere What strategy can you use to solve the problem? MP.1.1

5. Model with Math Complete the bar diagrams to show how to represent the hidden questions. Then, write and solve equations. 4.NBT.2.4, 4.OA.1.3, MP.4.1

6. Model with Math How many more times was the song downloaded on days 1 and 2 combined than on days 3 and 4 combined? Complete the bar diagram and write and solve an equation to find the difference, *d*. 4.NBT.2.4, 4.OA.1.3, MP.4.1

t = total days 1 and 2

s = total days 3 and 4