# **Lesson 22: Benchmark Percentages**

Let's contrast percentages and fractions.

## 22.1: What Percentage Is Shaded?

What percentage of each diagram is shaded?



#### 22.2: Liters, Meters, and Hours

1. a. How much is 50% of 10 liters of milk?

b. How far is 50% of a 2,000-kilometer trip?

c. How long is 50% of a 24-hour day?

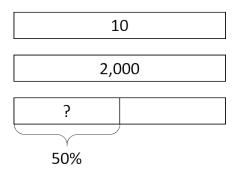
d. How can you find 50% of any number?

2. a. How far is 10% of a 2,000-kilometer trip?

b. How much is 10% of 10 liters of milk?

c. How long is 10% of a 24-hour day?

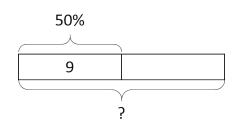
- d. How can you find 10% of any number?
- 3. a. How long is 75% of a 24-hour day?
  - b. How far is 75% of a 2,000-kilometer trip?
  - c. How much is 75% of 10 liters of milk?
  - d. How can you find 75% of any number?



### 22.3: Nine is . . .

Explain how you can calculate each value mentally.

- 1. 9 is 50% of what number?
- 2. 9 is 25% of what number?



- 3. 9 is 10% of what number?
- 4. 9 is 75% of what number?
- 5.9 is 150% of what number?

### 22.4: Matching the Percentage

Match the percentage that describes the relationship between each pair of numbers. One percentage will be left over. Be prepared to explain your reasoning.

1. 7 is what percentage of 14?	• 4%
2. 5 is what percentage of 20?	• 10%
3. 3 is what percentage of 30?	• 25%
4. 6 is what percentage of 8?	• 50%
5. 20 is what percentage of 5?	• 75%
	• 400%

Accelerated 6 Unit 2 Lesson 22



#### Are you ready for more?

- 1. What percentage of the world's current population is under the age of 14?
- 2. How many people is that?
- 3. How many people are 14 or older?

#### Lesson 22 Summary

Certain percentages are easy to think about in terms of fractions.

