

## Lesson 2 Practice Problems

1. Twenty pounds of strawberries are being shared equally by a group of friends. The equation  $20 \div 5 = 4$  represents the division of strawberries.

a. If the 5 represents the number of people, what does the 4 represent?

b. If the 5 represents the pounds of strawberries per person, what does the 4 represent?

2. A sixth-grade science club needs \$180 to pay for the tickets to a science museum. All tickets cost the same amount.

What could  $180 \div 15$  mean in this situation? Describe two different possible meanings of this expression. Then, find the quotient and explain what it means in each case.

3. Write a division or multiplication equation that represents each situation. Use a “?” for the unknown quantity.

a. 2.5 gallons of water are poured into 5 equally sized bottles. How much water is in each bottle?

b. A large bucket of 200 golf balls is divided into 4 smaller buckets. How many golf balls are in each small bucket?

c. Sixteen socks are put into pairs. How many pairs are there?

4. Consider the problem: Mai has \$36 to spend on movie tickets. Each movie ticket costs \$4.50. How many tickets can she buy?

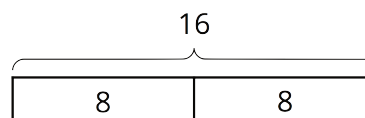
a. Write a multiplication equation and a division equation to represent this situation.

b. Find the answer. Draw a diagram, if needed.

c. Use the multiplication equation to check your answer.

5. Kiran said that this diagram can show the solution to  $16 \div 8 = ?$  or  $16 \div 2 = ?$ , depending on how we think about the equations and the “?”.

Explain or show how Kiran is correct.



6. Complete the table. Write each percentage as a percent of 1.

fraction	decimal	percentage
$\frac{1}{4}$	0.25	25% of 1
	0.1	
		75% of 1
$\frac{1}{5}$		
	1.5	
		140% of 1

(From Unit 2, Lesson 23.)

7. Mini muffins cost \$3.00 per dozen.

- Andre says, "I have \$2.00, so I can afford 8 muffins."
- Elena says, "I want to get 16 muffins, so I'll need to pay \$4.00."

Do you agree with either of them? Explain your reasoning.

(From Unit 2, Lesson 18.)