

## Lesson 7 Practice Problems

1. Priya is sharing 24 apples equally with some friends. She uses division to determine how many people can have a share if each person gets a particular number of apples. For example,  $24 \div 4 = 6$  means that if each person gets 4 apples, then 6 people can have apples. Here are some other calculations:

$$24 \div 4 = 6$$

$$24 \div 2 = 12$$

$$24 \div 1 = 24$$

$$24 \div \frac{1}{2} = ?$$

- a. Priya thinks the “?” represents a number less than 24. Do you agree? Explain or show your reasoning.
- b. In the case of  $24 \div \frac{1}{2} = ?$ , how many people can have apples?
2. Find the value of  $\frac{15}{4} \div \frac{5}{8}$ . Show your reasoning.

3. Divide  $4\frac{1}{2}$  by each of these unit fractions.

a.  $\frac{1}{8}$

b.  $\frac{1}{4}$

c.  $\frac{1}{6}$

4. Consider the problem: Kiran has  $2\frac{3}{4}$  pounds of flour. When he divides the flour into equal-sized bags, he fills  $4\frac{1}{8}$  bags. How many pounds fit in each bag?

Write a multiplication equation and a division equation to represent the question. Then, find the answer and show your reasoning.

5. Elena and Noah are each filling a bucket with water. Noah's bucket is  $\frac{2}{5}$  full and the water weighs  $2\frac{1}{2}$  pounds. How much does Elena's water weigh if her bucket is full and her bucket is identical to Noah's?

a. Write multiplication and division equations to represent the question.

b. Draw a diagram to show the relationship between the quantities and to find the answer.

(From Unit 3, Lesson 5.)

6. Calculate each percentage mentally.

a. 25% of 400

a. 75% of 200

a. 5% of 20

b. 50% of 90

b. 10% of 8,000

(From Unit 2, Lesson 23.)