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Unit 4, 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.

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- 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?

$20 \text{ lbs} = 5 \text{ people} = 4$
 \downarrow
 lbs each

$20 \div 5 \text{ lbs} = 4$ \Rightarrow number of people
 each

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

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What could $180 \div 15$ mean in this context? Describe two interpretations of the expression. Then, find the quotient and explain what it means in each interpretation.

1. $180 \div 15 = 12$ Kids going
 \uparrow
 \$ per ticket

2. $180 \div 15 = \$12$ per ticket
 \uparrow
 kids

3. Write a multiplication equation that corresponds to each division equation.

3

a. $10 \div 5 = ?$

$5 \times ? = 10$
 $5 \times 2 = 10$

b. $4.5 \div 3 = ?$

$3 \times ? = 4.5$
 $3 \times 1.5 = 4.5$

c. $\frac{1}{2} \div 4 = ?$

$4 \times ? = \frac{1}{2}$ OR
 $4 \times \frac{1}{8} = \frac{1}{2}$

4. Write a division or multiplication equation that represents each situation. Use a "?" for the unknown quantity.

3

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

$2.5 \text{ gal} \div 5 \text{ bottles} = ? \text{ gallons}$ OR $5 \times ? = 2.5$

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

$200 \div 4 = ? \text{ gb}$ OR $4 \times ? = 200$
 gb bucket

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

$16 \div 2 = ?$
 sock per pair pairs
 $2 \times ? = 16$
 per pair pairs sock

5. Find a value for a that makes each statement true.

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a. $a \div 6$ is greater than 1*anything > 6*c. $a \div 6$ is less than 1*anything less than 6*b. $a \div 6$ is equal to 1*6*d. $a \div 6$ is equal to a whole number*multiples of 6
6, 12, 18, 24, ...*

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

fraction	decimal	percentage
$\frac{1}{4}$	0.25	25% of 1
$\frac{1}{10}$	0.1	10% of 1
$\frac{3}{4}$.75	75% of 1
$\frac{1}{5}$.20	20% of 1
$1\frac{1}{2}$ $\frac{3}{2}$	1.5	150%
$1\frac{4}{10}$ $1\frac{2}{5}$	1.4	140% of 1

7. Jada walks at a speed of 3 miles per hour. Elena walks at a speed of 2.8 miles per hour.

If they both begin walking along a walking trail at the same time, how much farther will Jada walk after 3 hours? Explain your reasoning.

J 3 mph

	m	hour
	3	1
$\times 3$	9	3

E 2.8 mph

	m	hour
	2.8	1
$\times 3$	8.4	3

$$9 - 8.4 = 0.6 \text{ miles farther}$$

J E