

Lesson 3 Practice Problems

1. A car is traveling down a highway at a constant speed, described by the equation $d = 65t$, where d represents the distance, in miles, that the car travels at this speed in t hours.
 - a. What does the 65 tell us in this situation?
 - b. How many miles does the car travel in 1.5 hours?
 - c. How long does it take the car to travel 26 miles at this speed?

2. Elena has some bottles of water that each holds 17 fluid ounces.
 - a. Write an equation that relates the number of bottles of water (b) to the total volume of water (w) in fluid ounces.
 - b. How much water is in 51 bottles?
 - c. How many bottles does it take to hold 51 fluid ounces of water?

3. There are about 1.61 kilometers in 1 mile. Let x represent a distance measured in kilometers and y represent the same distance measured in miles. Write two equations that relate a distance measured in kilometers and the same distance measured in miles.

(From Unit 5, Lesson 2.)

4. In Canadian coins, 16 quarters is equal in value to 2 toonies.

number of quarters	number of toonies
1	
16	2
20	
24	

- Complete the table.
- What does the value next to 1 mean in this situation?

(From Unit 5, Lesson 1.)

5. Each table represents a proportional relationship. For each table:

- Fill in the missing parts of the table.
- Draw a circle around the constant of proportionality.

x	y
2	10
	15
7	
1	

a	b
12	3
20	
	10
1	

m	n
5	3
10	
	18
1	

(From Unit 5, Lesson 1.)

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

a. $10 \div 5 = ?$

b. $4.5 \div 3 = ?$

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

(From Unit 3, Lesson 2.)