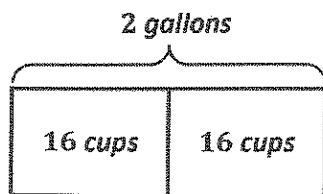


G4-M7-Lesson 2

Use the RDW process to solve Problems 1 and 2.

1. Lucy buys 2 gallons of milk. How many cups of milk does she have?



I can draw a tape diagram with 2 units of 16 cups because Lucy bought 2 gallons of milk and each gallon is the same as 16 cups.

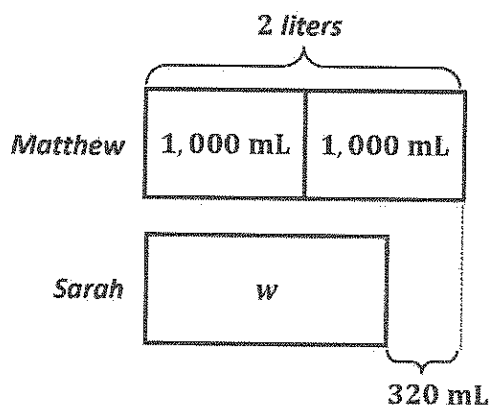
1 unit: 16 cups

2 units: $2 \times 16 \text{ cups} = 32 \text{ cups}$

Lucy has 32 cups of milk.

I multiply 2×16 cups to find the number of cups in 2 gallons.

2. Matthew drank 2 liters of water today, which was 320 milliliters more water than Sarah drank today. How much water did Sarah drink today?



I draw tape diagrams to represent the amount of water Matthew and Sarah drank. Matthew's tape diagram is longer than Sarah's because he drank 320 more milliliters of water than she did.

1 L = 1,000 mL

2 L = 2,000 mL

$w = 2,000 \text{ mL} - 320 \text{ mL}$

$w = 1,680 \text{ mL}$

Sarah drank 1,680 mL of water today.

I convert the amount of water Matthew drank, 2 liters, into milliliters. Then, I subtract from 2,000 mL the excess amount of water that Matthew drank, which is 320 mL. This tells me how much water Sarah drank.

3. Complete the tables.

a.

Gallons	Quarts
1	4
3	12
5	20

b.

Quarts	Pints
1	2
4	8
8	16

1 gallon = 4 quarts. I multiply the number of gallons by 4 to find the number of quarts.

1 quart = 2 pints. I multiply the number of quarts by 2 to find the number of pints.

4. Solve.

a. 5 gallons 3 quarts = 23 quarts

There are 4 quarts in 1 gallon.
 5×4 quarts = 20 quarts.

b. 25 gallons 2 quarts = 408

I can solve this two ways: Convert gallons and quarts to cups, or convert gallons to quarts and then all quarts to cups. cups

5. Answer *true* or *false* for the following statement. If your answer is false, make the statement true by correcting the right side of the comparison.

6 pints > 3 quarts 1 cup false

~~2 quarts 1 cup~~

2 pints = 1 quart
 3×2 pints = 6 pints
 3 quarts 1 cup = 6 pints 1 cup

The statement is false because 6 pints is not greater than 6 pints 1 cup. The number on the right has to be less than 3 quarts.