Name _____   Date _____
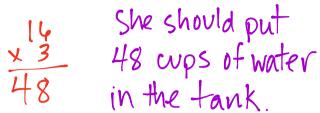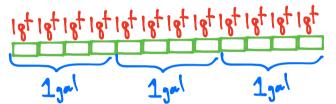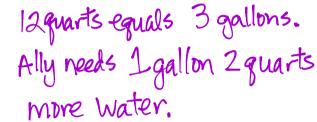
Use the RDW process to solve Problems 1–3.

1. Dawn needs to pour 3 gallons of water into her fish tank. She only has a 1-cup measuring cup. How many cups of water should she put in the tank?

1 gallon	1 gallon	1 gallon
16 cups	16 cups	16 cups

$$\begin{array}{r} 16 \\ \times\ 3 \\ \hline 48 \end{array}$$
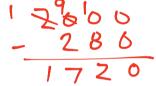
She should put 48 cups of water in the tank.

2. Julia has 4 gallons 2 quarts of water. Ally needs the same amount of water but only has 12 quarts. How much more water does Ally need?

1qt 1qt 1qt 1qt 1qt 1qt 1qt 1qt 1qt 1qt 1qt 1qt

1 gal   1 gal   1 gal

12 quarts equals 3 gallons.
Ally needs 1 gallon 2 quarts more water.

3. Sean drank 2 liters of water today, which was 280 milliliters more than he drank yesterday. How much water did he drink yesterday?

1 liter	1 liter
1000 mL	1000 mL

$$\begin{array}{r} 2\,0\,0\,0 \\ -\ \ \ 2\,8\,0 \\ \hline 1\,7\,2\,0 \end{array}$$

Sean drank 1,720 mL of water yesterday.

4. Complete the tables.

a.

Gallons	Quarts
1	4
2	8
4	16
12	48
15	60

b.

Quarts	Pints
1	2
2	4
6	12
10	20
16	32

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Lesson 2:   Create conversion tables for length, weight, and capacity units using measurement tools, and use the tables to solve problems.

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5. Solve.

a. 6 gallons 3 quarts = ___27___ quarts

6×4=24   24+3=27

b. 12 gallons 2 quarts = ___50___ quarts

12×4= 48   48+2= 50

c. 5 quarts 1 pint = ___11___ pints

5×2=10   10+1= 11

d. 13 quarts 3 pints = ___58___ cups

13×2=26   26+3=29   29×2=58

e. 17 gallons 2 quarts = ___140___ pints

17×8 =136   136+4=140
2×2= 4

f. 27 gallons 3 quarts = ___444___ cups

27 ×4 =108   111×4= 444 cups
108+3=111qt

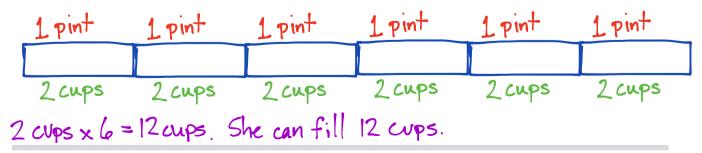6. Explain how you solved Problem 5(f).

ANSWERS WILL VARY.

First we converted gallons to quarts. Then converted total number of quarts into cups.

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

a. 2 quarts > 10 pints ___FALSE___

4

b. 6 liters = 6,000 milliliters ___TRUE___

c. 16 cups < 4 quarts 1 cup ___FALSE___

0 cups

8. Joey needs to buy 3 quarts of chocolate milk. The store only sells it in pint containers. How many pints of chocolate milk should he buy? Explain how you know.

| 1 quart | 1 quart | 1 quart |
| 2 pints | 2 pints | 2 pints |

Each quart is equal to 2 pints.

3 quarts is equal to 6 pints.

9. Granny Smith made punch. She used 2 pints of ginger ale, 3 pints of fruit punch, and 1 pint of orange juice. She served the punch in glasses that had a capacity of 1 cup. How many cups can she fill?

| 1 pint | 1 pint | 1 pint | 1 pint | 1 pint | 1 pint |
| 2 cups | 2 cups | 2 cups | 2 cups | 2 cups | 2 cups |

2 cups × 6 =12 cups. She can fill 12 cups.

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