

Name \_\_\_\_\_

Date \_\_\_\_\_

## Units of Volume Problems - Guided Lesson Explanation

### Explanation#1

Step 1) First we know in 1 qt = 32 oz. Find out the number of ounces in 3 quarts.

Step 2) Let set it up as a proportion and solve for x.

$$\frac{1 \text{ quart}}{3 \text{ quarts}} = \frac{32 \text{ ounces}}{x \text{ ounces}} \qquad 96 \text{ ounces} = x$$

Step 3) Restate the problem with this in mind:

$$96 \text{ oz.} + 12 \text{ oz.} = \underline{\hspace{2cm}}$$

$$3 \text{ qt } 12 \text{ oz} = 108 \text{ oz.}$$

The answer is 108 oz.

### Explanation#2

Step 1) First we know in 1 C = 32 oz. Find the number of cups in 40 oz.

Step 2) It is pretty clear that 32 will go into 40 only once.  $40 - 32 = 8$

Step 3)  $40 \text{ oz} = 1 \text{ C } 8 \text{ oz.}$

Step 4) The answer is 1 C 8oz.

### Explanation#3

Step 1) First we know in 1 qt = 2 pt

Step 2) Set up the proportion:

$$\frac{1 \text{ quart}}{x \text{ quarts}} = \frac{2 \text{ pints}}{8 \text{ pints}}$$

Step 3)  $8 = 2x$

Step 4) The answer is 4 qt

