# Culinary Math Exercise 1 Convert units to fractions

# Convert smaller units into fractions of a larger unit

*Example:* 4 cups = \_\_\_\_\_ gallon

How many cups in a gallon? 16, so multiply 4 by 1/16.

 $4 c. = \frac{4}{16} gal. = \frac{1}{4} gal.$ 

2 cups = \_\_\_\_\_ gallon

3 cups = \_\_\_\_\_ quart

4 fluid ounces = \_\_\_\_ cup

6 ounces = \_\_\_\_\_ pound

4 tablespoons = \_\_\_\_ pint

2 teaspoons = \_\_\_\_\_ tablespoon

## Convert smaller units into mixed fractions of a larger unit

Example: 22 tablespoons = cups

How many tbsp. in a cup? 16, so multiply 22 by 1/16.

22 tbsp. =  $\frac{22}{16}$  c. = 1  $\frac{6}{16}$  c. (NOTE THAT YOU <u>CAN</u>'T MEASURE 1 6/16 CUPS!)

so you need to express this in cups and tablespoons

22 tbsp. = 
$$\frac{22}{16}$$
 c. =  $1\frac{6}{16}$  c. = 1 c. 6 tbsp.

$$3 c. = \underline{\hspace{1cm}} pt. = \underline{\hspace{1cm}} pt. \underline{\hspace{1cm}} c.$$

$$9 c. = \underline{qt}. = \underline{qt}.$$

$$34 \text{ c.} = \underline{\qquad} \text{gal.} = \underline{\qquad} \text{gal.} \underline{\qquad} \text{c.}$$

# Conversion: Multiply and convert to usable measure

Example: A recipe calls for 4 teaspoons baking powder, you need to make 8 times the recipe.

a. multiply 4 tsp.  $\times$  8 = 32 tsp. BUT YOU DON'T WANT TO MEASURE SO MANY TEASPOONS! SO WHAT'S THE NEXT BIGGER UNIT? A TABLESPOON. HOW MANY TABLESPOONS EQUAL 32 TEASPOONS?

b.  $32 \ tsp. = \frac{32}{3} \ tbsp. = 10 \ \frac{2}{3} \ tbsp. = 10 \ tbsp. \ 2 \ tsp.$ 

# multiply

# $3 c. \times 3 =$

9 fl. oz. 
$$\times$$
 4 = \_\_\_\_\_

$$9 \text{ oz.} \times 3 =$$

$$1/2 \text{ c.} \times 13 =$$
\_\_\_\_\_

#### convert to usable measure

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