

## Worksheet # C3: Conversions (pgs 40-42)

1. What is the mathematical rule that must be followed when making conversions? \_\_\_\_\_

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2. By definition, 12 inches equals one foot, 3 feet equals one yard, and 5,280 feet equals one mile. Convert each of the following, setting up each just like we did in class. Showing the set-up is crucial! Also pay attention to sig figs: they will count from now on.

Ex: 29.3 feet = \_\_\_\_\_ yards

a. 3.276 miles = \_\_\_\_\_ feet

b. 39.280 inches = \_\_\_\_\_ feet

c. 3,469 miles = \_\_\_\_\_ yards (2 steps)

d. .0298 yards = \_\_\_\_\_ inches (2 steps)

e. 47,000,000 inches = \_\_\_\_\_ miles (2 steps)

f. .000400 yards = \_\_\_\_\_ inches (2 steps)

g. 100.0 feet = \_\_\_\_\_ miles

3. Going metric: Use the following conversion factors to perform the conversions below.

1.000 inch = 2.540 centimeters  
1.000 teaspoon = 4.9289 milliliters  
1.000 cups = 0.2366 liters  
1.000 pounds = 0.4536 kilograms  
1.000 grams = 0.0353 ounces

a. 56.8 inches = \_\_\_\_\_ centimeters

b. 16 ounces = \_\_\_\_\_ grams

c. 2.00 liters = \_\_\_\_\_ cups

d. 125 pounds = \_\_\_\_\_ kilograms

e. There are exactly 3 teaspoons in one tablespoon. How many milliliters are in 3.298 tablespoons?

4. How do you feel about this way of converting things? \_\_\_\_\_