**Unit Conversion TEST**

*Use the following to do the conversions below. Show ALL work. (2 pts each)*

There are 5280 feet in one mile

There are 0.034 ounces in one milliliter

There are 0.454 kg in one pound

There are 73 gallons in 2 barrels

There are 1.05 quarts in one liter

There are 1000 milliliters in 1 liter

1) Convert 23 miles to feet.

2) Convert 120 pounds to kg.

3) Convert 451 milliliter to ounces.

4) Convert 6 feet to miles.

5) Convert 4 quarts to liters.

6) Convert 0.045 barrels to gallons.

7) How old is Mrs. O’Bier’s dog in seconds if he is 3 years old?

8) How many ounces are there in 6 quarts?

DO THE NEXT SECTION ONLY IF YOU NEED TO REPLACE YOUR SCORE FROM THE SIGFIG/DENSITY TEST!!!!!

*Complete the following calculations related to density. Show ALL work. (2 pts each)*

1. A rock has a mass of 210 grams and occupies a volume of 70 cm3. What is its density?

1. An unknown liquid occupies a volume of 5 ml and has a mass of 40 grams. Find its density.
2. A rectangular solid of unknown density is 5 meters long, 2 meters high and 4 meters wide.  The mass of this solid is 300 grams. Given this information for this homogeneous (alike throughout) material, calculate its density.

*Tell how many sigfigs are in the following (1 pt each)*

*0.027636\_\_\_\_ 2,040\_\_\_ 20\_\_\_ 6.500\_\_\_*

*654.02\_\_\_\_ 98,000\_\_\_ 7.40\_\_\_ 0.000001\_\_\_*