# Unit 1 Prob II

# English to Metric conversions

1. **How many Kg are in 125 pounds?**
2. **How many liters are in 217.8 quarts?**
3. **How many inches are in 310 cm?**
4. **How many yards are in 1600 m?**
5. **How many gallons are in 33.57 liters?**
6. **How many pounds are in 2250 Kg?**

**1 Inch = 2.540 cm 1 Kg = 2.2046 lb**

 **1 Liter = 1.056 qts. 1 gal. = 4 qts. 1m = 100 cm**

Metric Conversions

**2100 g = \_\_\_\_ Kg 7.1375 Km = \_\_\_ m**

**.30001 L = \_\_\_\_ ml 12,500,000 cm = \_\_m**

**55,070 Hm = \_\_\_ mm 52,500 cg = \_\_\_\_\_ g**

**1,000 g = \_\_\_\_Kg 103.7 Kl = \_\_\_\_\_ ml**

1. **If you measured the volume of 113.4 ml of a solution, and the actual volume was 4.5 ml, what was your percent error?**
2. **If the doctor measured your weight to be 2289.9 Kg, when it is actually 395 Kg, what was his percent error?**
3. **If you calculated the density of a rock to 2501.6 g/ml, when the actual density was 1502.2 g/ml, what was your percent error?**
4. **If you measured the mass of some solid Mg to be 321.2 g, when the actual mass was 10 .89 g, what was the percent error of the measurement?**