***Unit 1 Review***

1) Convert the following problems

a) 1.5 L to mL

b) 2.89 meters to km

c) 345 mm to km

2) How many sig figs are in each number

a) 0.0043

b) 180

c) 92401.00

d) 0.04040

3) Write the following in scientific notation

a) 8245

b) 0.0000452

c) 211

d) 0.003

4) Write the following in standard form

a) 7.65 x 103

b) 3.21 x 10-2

c) 1.1 x 105

d) 3.9 x 10-3

5) Solve the following problems using the correct number of sig figs in the answer

a) 1.0000 + 0.1

b) 478.34 – 13.000

c) 3.000 x 9.0

d) 42.00 / 7.0

6) A student records a boiling point of 62.1⁰C. The actual value is 68.0⁰C. What is the percent error?

7) When measuring a known mass of 10.0 kg, a student recorded a mass of 19.0 kg. What is the percent error of the measurement?

8) What is the density of an object that has a mass of 1.2 g and a volume of 8.2 mL?

9) What is the volume of an object that has a mass of 3.4 g and a density of 7.6 g/mL?