Problems from Chapter 2

1. A student measures the mass of a beaker filled with corn oil. The mass reading is 215.6 g. The mass of the beaker is 110.4 g. What is the mass of the corn oil? What is the density of the corn oil if it's volume is 114 mL?

2. Calculate the mass of a sample of gold that occupies 0.005 mL. The density of gold is 19.3 g/mL.

3. What is the percent error for a mass measurement of 17.7 g, given that the correct value is 21.2 g?