**Homework #65 Chemistry 1013 section 2 (Fong) due Friday 20 October 2017 12 pts (in class)**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Assume: 1 mol count ~ 6\*1023

Show work for all mole-mass-count problems or no credit will be given !!

1) How many moles of X with a molecular mass=A are present in B grams of X ?

Moles X= ( a formula involving A and B)

2) What is the molecular mass of CaCO3 to the nearest gram ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ g/mol

3) How many grams of CaCO3 are present in 2.4\*1024 molecules of CaCO3 ?

\_\_\_\_\_\_\_\_\_\_ g CaCO3

4) How many moles of CaCO3 are present in 25 grams of CaCO3 ?

\_\_\_\_\_\_\_\_\_\_\_ mol CaCO3

5) How many molecules are present in 0.15 mol of CaCO3 ?

\_\_\_\_\_\_\_\_\_ molecules CaCO3

6) How many molecules of CaCO3 are present in 500 grams of CaCO3 ?

\_\_\_\_\_\_\_\_\_ molecules of CaCO3