

*Chem 1014*

In-Class Problem Set #9

InClass for the week of October 25, 1999

Fall 1999

Name \_\_\_\_\_

TA Name \_\_\_\_\_

Lab Section # \_\_\_\_\_

1. Calculate the mass, in grams, of each of the following;

a) 2.56 mol Mg(OH)<sub>2</sub>

b)  $8.12 \times 10^{-3}$  mol CrCl<sub>3</sub>

c) an atom of Mo (molybdenum)

2. Calculate each of the following;

a) the number of hydrogen atoms in one molecule of  $C_4H_{10}$ . (Note: this question does not require a calculation, just provide a number.)

b) the number of P atoms in one mol of  $P_4$ .

c) the number of N atoms in 3.0 mol of  $N_2O$ .

d) the number of Cl atoms in 210 grams  $CaCl_2$ .