**Chem 1013: mini-quiz #18: mole and dozen basics**

3 April 2013 5 pts

Your name: \_\_\_\_\_\_\_\_\_\_\_\_answers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Useful facts: 1 dozen = 12 1 mole count=chemist’s dozen = 6.02\*1023**

1. **If a dozen eggs weighs 500 grams, how many dozen eggs in 3500 grams ? \_\_7\_\_\_\_dozen = 3500/500**
2. **If a mole of benzene weighs 78 g, how many moles in 390 g of benzene? \_\_5\_\_\_\_mole =390/78**
3. **If a dozen eggs weighs 500 grams, how many eggs in 3500 grams ? \_\_84\_\_\_eggs = 3500/500 \*12**
4. **If a mole of benzene weighs 78 g, how many molecules of benzene in 390 g of benzene ? \_3.01\*1024\_\_\_\_**

 **= 390/78 \*6.02\*1023 Molecules**

1. **What does one mole of CO2 weigh ? \_\_44\_\_\_\_g/mol**

**=12\*1 +16\*2**

 **C O2**