**Mini-quiz #13 Chemistry 1114 Friday 5 October 2012**

**7 pts**

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

13.1 Add/Subtract to Correct Significant Figure Count

1. 1.000 + 10 -0.0034546 = 11 decimal (or absent decimal) determined by least precise digit in sum
2. 2.00 -1.023 +2 = 3

13.2 Multiply/Divide to Correct Significant Figure Count

1. 3.000\*1.0\_\_\_ = 1

6\*0.0500002

1. 1\*2.0001/2.0134 = 1

13.3 Egg Math

Given that a dozen eggs weighs 600 grams:

1. How many dozen eggs in 2400 grams of eggs ? (2400 g/600 g/doz)= 4 dozen
2. How many grams of eggs in 8 dozen eggs? 8 dozen\*600 g/dozen=4800 g
3. How many eggs in 24,000 grams ? ( 24,000 g\*1/600 g/doz) \*12 eggs/doz = 4800