**Mini-quiz #12 Chemistry 1114 Wed 3 October 2012 A**

**8 pts**

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

12.1 Convert:

1. 1.3 uL to \_1.3\*103\_nL c) 30 µm to \_\_\_3\*10-8\_\_ km

*1.3 u/n =1.3 \*10-6/10-9=1.3\*10+3 30 u/k = 30\*10-6/10+3 =30\*10-9 =3\*10-8*

1. 500 ks to \_\_5\*108\_ ms d) 1 g/m to \_\_\_10\_\_\_\_\_\_ mg/cm

*500 k/m = 500\*103/10-3 =500\*106 numerator 1 /m=1/10-3=10+3 = 10*

*=5\*108 denominator 1/c= 1/10-2 =10+2*

12.2 How many sig figs in:

1. 100 \_\_1\_\_\_\_\_ c) 0.00001000 \_\_\_\_\_\_4\_\_\_\_\_
2. 1001 \_\_4\_\_\_\_\_ d) 3.14 \*1034567 \_\_\_\_\_\_3\_\_\_\_\_

**Mini-quiz #12 Chemistry 1114 Wed 3 October 2012 B**

**8 pts**

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

* 1. Convert:

1. 3.1 nL to \_3.1\*103 L c) 30 µm to \_\_\_3\*10-2\_\_\_\_\_\_\_\_ mm

*3.1 n/p= 3.1 10-910-12 =3.1\*103 30 u/m=30\*10-6/10-3 =30\*10-3=3\*10-2*

1. 100 ks to \_1\*1011 µs d) 1 g/m to \_\_\_\_\_10\_\_\_\_\_\_ mg/cm

*100 k/u =100 \*103/10-6 =100\*10+9=1\*1011 numerator 1 /m=1/10-3=10+3 = 10*

*denominator 1/c= 1/10-2 =10+2*

* 1. How many sig figs in:

1. 1001 \_4\_\_\_\_\_\_ c) 0.01000 \_\_\_\_4\_\_\_\_\_\_
2. 2000 \_1\_\_\_\_\_ d) 3.14 \*1034567 \_\_\_\_\_3\_\_\_\_\_\_