CHM 1025C   **George W.J. Kenney, Jr, Professor of Chemistry**
Chapter Test #1   **Ch 1, 2, 3**   **05-Feb-2009**   **West**

NO CREDIT IF YOU: Fail to put in the Units & Properly Round, Fail to show ALL math work

PRINT YOUR NAME on the line: _____

(1 pt)   Your start time on this test   _____

(1 pt)   Your finish time on this test: _____

(1 pt)   Time it took you to do this test: _____

Max Grade: 101 points

A. Fill in the Blanks (40 pts total, 4 points ea)

1. Define Chemistry

2. What is the Scientific Method:

3. Define Scientific Notation

4. Define Mass

5. What are the rules [in this class] for determining the number of Significant Figures:

6. What are the different temperature scales and when are they used?

7. What are the States of Matter?

8. **Give an example of a Physical Property of a compound?**

9. **Give an example of a Heterogeneous Mixture?**

10. **What is Distillation used for?**

B. Solve the following: [Show all equations and all math] (25 pts total, 5 points ea)

1. **876.55 mm * 10. mm =** _____

2. **00876543.2000 to 2 significant digits** _____

3 – 5

```
      2345.678              1111.111              22.222
       111.11          x   002          x 0.200
   +  0011.
```

C. Solve the following: [Show all equations and all math] (30 pts total, 10 points ea)

1. **The gas tank of my car will hold 22.4 gallons. How many ml is this?**

2. Convert 9° F to ^{o} K:

3. My height is 71.3 inches. How many mm is this?

(1 pt) DID YOU CHECK FOR SIGNIFICANT DIGITS _____ Yes _____ No

(1 pt) DID YOU CHECK FOR PROPER UNITS _____ Yes _____ No

(1 pt) How do you rate this test from 1 to 10 **_____**

1 = Very East, can do it with my eyes closed, 10= Very Very Difficult, could not do any of the problems

1	2A												3A	4A	5A	6A	7A	8A
1 **H** 1.008																		**2** **He** 4.003
3 **Li** 6.941	**4** **Be** 9.012												**5** **B** 10.81	**6** **C** 12.01	**7** **N** 14.01	**8** **O** 16.00	**9** **F** 19.00	**10** **Ne** 20.18
11 **Na** 22.99	**12** **Mg** 24.31												**13** **Al** 26.98	**14** **Si** 28.09	**15** **P** 30.97	**16** **S** 32.07	**17** **Cl** 35.45	**18** **Ar** 39.95
19 **K** 39.10	**20** **Ca** 40.08	**21** **Sc** 44.96	**22** **Ti** 47.88	**23** **V** 50.94	**24** **Cr** 52.00	**25** **Mn** 54.94	**26** **Fe** 55.85	**27** **Co** 58.93	**28** **Ni** 58.69	**29** **Cu** 63.55	**30** **Zn** 65.38		**31** **Ga** 69.72	**32** **Ge** 72.59	**33** **As** 74.92	**34** **Se** 78.96	**35** **Br** 79.90	**36** **Kr** 83.80
37 **Rb** 85.47	**38** **Sr** 87.62	**39** **Y** 88.91	**40** **Zr** 91.22	**41** **Nb** 92.91	**42** **Mo** 95.94	**43** **Tc** (98)	**44** **Ru** 101.1	**45** **Rh** 102.9	**46** **Pd** 106.4	**47** **Ag** 107.9	**48** **Cd** 112.4		**49** **In** 114.8	**50** **Sn** 118.7	**51** **Sb** 121.8	**52** **Te** 127.6	**53** **I** 126.9	**54** **Xe** 131.3
55 **Cs** 132.9	**56** **Ba** 137.3	**57** **La*** 138.9	**72** **Hf** 178.5	**73** **Ta** 180.9	**74** **W** 183.9	**75** **Re** 186.2	**76** **Os** 190.2	**77** **Ir** 192.2	**78** **Pt** 195.1	**79** **Au** 197.0	**80** **Hg** 200.6		**81** **Tl** 204.4	**82** **Pb** 207.2	**83** **Bi** 209.0	**84** **Po** (209)	**85** **At** (210)	**86** **Rn** (222)
87 **Fr** (223)	**88** **Ra** 226	**89** **Ac**** (227)	**104** **Rf** (261)	**105** **Db** (262)	**106** **Sg** (263)	**107** **Bh** (264)	**108** **Hs** (265)	**109** **Mt** (268)	**110** **Ds** (271)	**111** **Rg** (272)	**112** **Uub**	**113** **Uut**	**114** **Uuq**	**115** **Uup**				