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

Max Grade: 102 points PRINT NAME ON LINE

CHECK CORRECT BOX OR LOOSE 20 PTS
Wed Afternoon Lab
Wed Evening Lab
(1 pt) Test End time
(1 pt) Test Start time
Test Elapsed time $\qquad$

## A. Answer the Following ( 4 Points each = 40 pts )

1. What is Chemistry?
2. What are the steps in the Scientific Method?
3. What is a measurement?
4. What is Scientific Notation?

Fill in the blanks

| Physical Quantity | SI Unit Name | English Unit Name |
| :--- | :--- | :--- |
| 5. Mass | - |  |
| 6. Length | - |  |
| 7. Time | - |  |
| 8. Temperature | - |  |

9. How many ml is in one Liter?
10. How many milligrams is in one gram?

## B. Perform the following Calculations [ Show All Math ] ( 6 pts ea $=60$ pts )

1. I am 5 feet 8.5 inches tall. My date, who's from Ireland, is 162.6 cm . Who is taller and by how much [ in inches ]?
2. I weigh 178.4 lbs. My Irish date weights 52.2 kilograms fully dressed. Who weights more and by how much [ in lbs ]?
3. I go to the store to get a bottle of Rum. The bottle size is $\mathbf{7 5 0}$. $\mathbf{m l}$. How many gallons is this?
4. The temperature outside is $260 .{ }^{\circ} \mathrm{K}$. Is this cold or warm? What is this temperature in ${ }^{\circ} \mathrm{F}$ ?
5. $\quad 1234.567$
123.45
12.345
3000.00
$\begin{array}{r}2.00 \\ \hline\end{array}$
5000.0
$\times \quad 2$
6. $\quad 999.99$ feet $\mathbf{x} 3.0 \mathrm{lb}=$

DID YOU CHECK FOR SIGNIFICANT DIGITS $\qquad$ Yes $\qquad$ No
DID YOU CHECK FOR PROPER UNITS $\qquad$ Yes $\qquad$ No

How do you rate this test from 1 to 10
1 = Very Easy, can do it with my eyes closed, $10=$ Very Very Difficult, could not do any of the problems

| 1 | $\begin{gathered} 1 \\ \mathbf{H} \\ 1.008 \end{gathered}$ | 2A |  |  |  |  |  |  |  |  |  |  | 3A | 4A | 5A | 6A | $7 A^{*}$ | $\begin{gathered} 2 \\ \mathrm{He} \\ 4.003 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline 3 \\ \mathbf{L i} \\ 6.941 \end{gathered}$ | $\begin{gathered} 4 \\ \mathbf{B e} \\ 9.012 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|c\|} \hline 5 \\ \mathbf{B} \\ 10.81 \\ \hline \end{array}$ | $\begin{gathered} 6 \\ \mathbf{C} \\ 12.01 \end{gathered}$ | $\begin{gathered} \mathbf{7} \\ \mathbf{N} \\ 14.01 \end{gathered}$ | $\begin{gathered} 8 \\ \mathbf{0} \\ 16.00 \end{gathered}$ | $\begin{gathered} 9 \\ \mathbf{F} \\ 19.00 \end{gathered}$ | $\begin{gathered} 10 \\ \mathrm{Ne} \\ 20.18 \end{gathered}$ |
|  | $\begin{gathered} 11 \\ \mathbf{N a} \\ 22.99 \end{gathered}$ | $\begin{gathered} 12 \\ \mathbf{M g} \\ 24.31 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} 13 \\ \mathbf{A 1} \\ 26.98 \end{gathered}$ | 14 $\mathbf{S i}$ 28.09 | $\begin{gathered} \mathbf{1 5} \\ \mathbf{P} \\ 30.97 \end{gathered}$ | $\begin{gathered} 16 \\ \mathbf{S} \\ 32.07 \end{gathered}$ | $\begin{gathered} 17 \\ \mathbf{C l} \\ 35.45 \end{gathered}$ | $\begin{gathered} 18 \\ \mathbf{A r} \\ 39.95 \end{gathered}$ |
|  | $\begin{gathered} 19 \\ \mathbf{K} \\ 39.10 \end{gathered}$ | $\begin{gathered} 20 \\ \mathbf{C a} \\ 40.08 \end{gathered}$ | $\begin{gathered} 21 \\ \mathbf{S c} \\ 44.96 \end{gathered}$ | $\begin{gathered} 22 \\ \mathbf{T i} \\ 47.88 \end{gathered}$ | $\begin{gathered} 23 \\ \mathbf{V} \\ 50.94 \end{gathered}$ | $\begin{gathered} 24 \\ \mathbf{C r} \\ 52.00 \end{gathered}$ | $\begin{gathered} 25 \\ \mathbf{M n} \\ 54.94 \end{gathered}$ | $\begin{gathered} 26 \\ \mathbf{F e} \\ 55.85 \end{gathered}$ | $\begin{gathered} 27 \\ \mathbf{C o} \\ 58.93 \end{gathered}$ | $\begin{gathered} 28 \\ \mathbf{N i} \\ 58.69 \end{gathered}$ | $\begin{gathered} 29 \\ \mathbf{C u} \\ 63.55 \end{gathered}$ | $\begin{gathered} 30 \\ \mathbf{Z n} \\ 65.38 \end{gathered}$ | 31 $\mathbf{G a}$ 69.72 | 32 $\mathbf{G e}$ 72.59 | $\begin{gathered} 33 \\ \text { As } \\ 74.92 \\ \hline \end{gathered}$ | 34 $\mathbf{S e}$ 78.96 | $\begin{gathered} 35 \\ \mathbf{B r} \\ 79.90 \end{gathered}$ | $\begin{gathered} 36 \\ \mathbf{K r} \\ 83.80 \end{gathered}$ |
| 5 | $\begin{gathered} 37 \\ \mathbf{R b} \\ 85.47 \end{gathered}$ | $\begin{gathered} 38 \\ \mathbf{S r} \\ 87.62 \end{gathered}$ | $\begin{gathered} 39 \\ \mathbf{Y} \\ 88.91 \end{gathered}$ | $\begin{gathered} 40 \\ \mathbf{Z \mathbf { r }} \\ 91.22 \end{gathered}$ | $\begin{gathered} 41 \\ \mathbf{N b} \\ 92.91 \end{gathered}$ | $\begin{gathered} 42 \\ \text { Mo } \\ 95.94 \end{gathered}$ | 43 <br> Tc <br> (98) | $\begin{gathered} 44 \\ \mathbf{R u} \\ 101.1 \end{gathered}$ | $\begin{gathered} 45 \\ \mathbf{R h} \\ 102.9 \end{gathered}$ | $\begin{gathered} 46 \\ \text { Pd } \\ 106.4 \end{gathered}$ | $\begin{gathered} 47 \\ \mathbf{A g} \\ 107.9 \end{gathered}$ | $\begin{gathered} 48 \\ \mathbf{C d} \\ 112.4 \end{gathered}$ | $\begin{gathered} 49 \\ \text { In } \\ 114.8 \end{gathered}$ | $\begin{gathered} 50 \\ \text { Sn } \\ 118.7 \end{gathered}$ | $\begin{gathered} 51 \\ \mathbf{S b} \\ 121.8 \end{gathered}$ | $\begin{gathered} 52 \\ \mathrm{Te} \\ 127.6 \end{gathered}$ | $\begin{gathered} 53 \\ \text { I } \\ 126.9 \end{gathered}$ | 54 <br> $\mathbf{X e}$ <br> 131.3 |
| 6 | $\begin{gathered} 55 \\ \text { Cs } \\ 132.9 \end{gathered}$ | $\begin{array}{r} 56 \\ \mathbf{B a} \\ 137.3 \end{array}$ | $\begin{gathered} 57 \\ \mathbf{L a} \mathbf{a}^{*} \\ 138.9 \end{gathered}$ | $\begin{gathered} 72 \\ \text { Hf } \\ 178.5 \end{gathered}$ | $\begin{gathered} 73 \\ \mathbf{T a} \\ 180.9 \end{gathered}$ | $\begin{gathered} 74 \\ \mathbf{W} \\ 183.9 \end{gathered}$ | $\begin{gathered} 75 \\ \mathbf{R e} \\ 186.2 \end{gathered}$ | $\begin{gathered} 76 \\ \text { Os } \\ 190.2 \end{gathered}$ | $\begin{gathered} 77 \\ \mathbf{I r} \\ 192.2 \end{gathered}$ | $\begin{gathered} 78 \\ \mathbf{P t} \\ 195.1 \end{gathered}$ | $\begin{gathered} 79 \\ \mathbf{A u} \\ 197.0 \end{gathered}$ | $\begin{gathered} 80 \\ \mathbf{H g} \\ 200.6 \end{gathered}$ | $\begin{gathered} 81 \\ \text { TI } \\ 204.4 \end{gathered}$ | $\begin{gathered} 82 \\ \mathbf{P b} \\ 207.2 \end{gathered}$ | $\begin{gathered} 83 \\ \mathbf{B i} \\ 209.0 \end{gathered}$ | $\begin{array}{\|c\|} \hline 84 \\ \mathbf{P o} \\ (209) \\ \hline \end{array}$ | $\begin{gathered} 85 \\ \text { At } \\ (210) \end{gathered}$ | $\begin{gathered} 86 \\ \mathbf{R n} \\ (222) \end{gathered}$ |
| 7 | $\begin{gathered} 87 \\ \mathbf{F r} \\ (223) \end{gathered}$ | $\begin{array}{r} 88 \\ \mathbf{R a} \\ 226 \\ \hline \end{array}$ | $\begin{gathered} 89 \\ \mathbf{A c}^{* *} \\ (227) \\ \hline \end{gathered}$ | $\begin{gathered} 104 \\ \mathbf{R f} \\ (261) \\ \hline \end{gathered}$ | $\begin{gathered} 105 \\ \mathbf{D b} \\ (262) \\ \hline \end{gathered}$ | $\begin{gathered} 106 \\ \mathbf{S g} \\ (263) \end{gathered}$ | $\begin{gathered} 107 \\ \mathbf{B h} \\ (264) \end{gathered}$ | $\begin{gathered} 108 \\ \text { Hs } \\ (265) \end{gathered}$ | $\begin{gathered} 109 \\ \text { Mt } \\ (268) \end{gathered}$ | $\begin{gathered} 110 \\ \text { Ds } \\ (271) \end{gathered}$ | $\begin{gathered} 111 \\ \mathbf{R g} \\ (272) \end{gathered}$ | $\begin{gathered} 112 \\ \mathbf{U u b} \end{gathered}$ | $\begin{aligned} & 113 \\ & \text { Unt } \end{aligned}$ | $\begin{gathered} 114 \\ \text { Uuq } \end{gathered}$ | $\begin{aligned} & 115 \\ & \text { Uup } \end{aligned}$ |  |  |  |

