<u>01-Aug-2009</u>
ound, Fail to show ALL math work
NE
Test End time
Test Start time
Test Elapsed time
(5 pts ea, 20 pts total)
172.6 cm. Who is taller and by how much much ml. How many gallons is this?

CHM 1025C George W.J. Kenney, Jr FINAL	<u>EXAM</u> <u>01</u> .	-Aug-2009
NO CREDIT IF YOU: Fail to put in the Units & Proper	ly Round, Fail to show ALL m	ath work
Max Grade: 100 points PRINT NAME ON	N LINE	
CHECK CORRECT BOX OR LOOSE 20 PTS	Test End time	
Wed Afternoon Lab □	Test Start time	
Wed Evening Lab □	(1 pt) Test Elapsed time	
A. Fill in the blanks (3 pts each, 39 pts total		
1. A plant growing is a Chemical or Physical Property?		
2. What is the difference between an element and a comp	pound?	
3. What kind of a mixture is a McDonalds Cheeseburger	c?	
4-5. What are the names and relative sizes of the sub ele	ment particles?	
6. What is the main product from the reaction of a stron	g acid and strong base?	
7. What are the steps in the Scientific Method?		CT-1
8. What is Scientific Notation?		CT-1
9. How many ml is in one Liter?		CT-1
10. How many milligrams is in one gram?		CT-1

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11. In the Greenhouse Effect, the su	un transmits to the earth?
12. When you go to the Chemistry 1. 2.	Lab, you will not be allowed to take the lab if:
13. What is the RedNeck way to re	member Significant Digits?
B. Fill in the Blanks (3 * 20 P	oints each = 60 pts)
1	$Fe_2(CO_3)_3$
2	CaCl ₂
3	K_3PO_4
4	H_2SO_4
5	AlCl ₃
6. Silver Nitrate	
7	Na_2S
8. Lead (IV) Bromide	
9	Na NO ₃
10. Potassium Sulfate	K_2 SO_3
11	HCl
12	Fe(MnO ₄) ₃
C. Write the equations for the follo	wing reactions and will they go to completion:

<u>C</u>

C-1. Silver Nitrate reacting with Lithium Bromide

C-2.	Sodium Bromide reacting with Magnesium Nitrate
C-3.	Calculate % Composition of each element in Sodium Bicarbonate
C-4. g/mo	Calculate the Empirical & Molecular formulae for: $C=79.23\%,\ H=5.70\%, Mw$ is $100-110$ de

C-5. If I try to react 10.0 g of Magnesium and 12. g of Hydrochloric Acid,

(10 pts) A. Write the complete balanced equations

(10 pts) B. Will this reaction go to completion?

(20 pts) C. How much of each product is generated?

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

1	1 H 1.008	ŽA											3A	4A	5A	6A	7A	2 He 4.003
2	3 Li 6.941	4 Be 9.012											5 B 10.81	6 C 12.01	7 N 14.01	8 0 16.00	9 F 19.00	10 Ne 20.18
3	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 CI 35.45	18 Ar 39.95
4	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
5	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
6	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 TI 204.4	82 Pb 207.2	83 Bi 209.0	84 Po (209)	85 At (210)	86 Rn (222)
7	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			