

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

Max Grade: 100 points

PRINT NAME ON LINE _____

CHECK CORRECT BOX OR LOOSE 20 PTS

Wed Afternoon Lab

Wed Evening Lab

Test End time _____

Test Start time _____

Test Elapsed time _____

PART A WITH RED CALCULATORS ONLY

(5 pts ea, 20 pts total)

1. I am 5 feet 6.5 inches tall. My date, who's from Ireland, is 172.6 cm. Who is taller and by how much [in inches]?

2. I go to the store to get a bottle of Rum. The bottle size is 750. ml. How many gallons is this?

3. The outside thermometer says it's 5° F, what is this temperature in °K?

4. 4000.00
 x 2.00

 5000.0
 x 2

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(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 compound?

3. What kind of a mixture is a McDonalds Cheeseburger?

4-5. What are the names and relative sizes of the sub element particles?

6. What is the main product from the reaction of a strong 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

11. In the Greenhouse Effect, the sun transmits _____ to the earth?

12. When you go to the Chemistry Lab, you will not be allowed to take the lab if:

1.

2.

13. What is the RedNeck way to remember Significant Digits?

B. Fill in the Blanks (3 * 20 Points each = 60 pts)

- | | |
|-----------------------|------------------------------|
| 1. _____ | $\text{Fe}_2(\text{CO}_3)_3$ |
| 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 | $\text{K}_2 \text{SO}_3$ |
| 11. _____ | HCl |
| 12. _____ | $\text{Fe}(\text{MnO}_4)_3$ |

C. Write the equations for the following reactions and will they go to completion:

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. Calculate the Empirical & Molecular formulae for: C = 79.23%, H = 5.70%, Mw is 100 – 110 g/mole

