Quiz Chemistry 121

Name		

- 1. Determine the molar mass to the nearest 100th place (two places past the decimal point) for the following compounds:
 - a. (NH₄)₃PO₄ ammonium phosphate
 - b. (CH₃)₂CHOH (isopropyl alcohol / rubbing alcohol)
- 2. Find the percentage:
 - a. **Iron** in iron (III) sulfate $Fe_2(SO_4)_3$
 - b. Copper in copper (II) nitrate Cu(NO₃)₂
- 3. Carry out the following conversions:
 - a. 63.9 g NaCl is how many moles?
 - b. 5.4 moles of Ba(OH)₂ is how many grams?
- 4. If one mole contains 6.022 X 10²³ objects how many atoms of oxygen are in 4.0 moles of oxygen gas? (note: oxygen is a diatomic molecule).

5. Given the following percentage composition – find the empirical formula:

38.9% Ba

29.4% Cr

31.7% O