Answer the following questions by showing all of your work. Partial credit is available. (7 points each)

***Percent Composition***

1. Determine the percent composition of **each** of the elements in Ba(NO3)2.
2. In a 400 gram sample, determine the masses for **each** of the elements in MnSO4.

***Molarity***

1. If there are 7.40 moles of salt present in 3.65 L of solution, what is the molarity?
2. What is the molarity of 15.0 grams of KOH dissolved in 1.50 L of solution?
3. What is the molarity of 8.00 g of CaCl2 dissolved in 145 mL of solution?
4. Calculate the mass of Ba(OH)2 required to prepare 2.50 L of a 0.0060 M solution.
5. How many liters should be used to prepare a sugar solution containing 6.88 grams of glucose, C6H12O6, if a 0.500 M concentration is desired?