Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assignment: Concentration of Ions in Solution

1. A solution of MgBr2(aq) has a concentration of 0.275mol/L.
   1. Write the dissociation reaction for MgBr2(s) in water.
   2. What is the concentration of the anions?
   3. What is the concentration of the cations?
2. A fertilizer contains 3.46g of NH4NO3(s) and 2.02g of (NH4)3PO4(s) in 10.0L of solution.
   1. Write the dissociation reaction for NH4NO3(s) in water.
   2. What is the molar concentration of NH4+(aq) from the 3.46g of NH4NO3(s)?
   3. Write the dissociation reaction for (NH4)3PO4(s) in water.
   4. What is the molar concentration of NH4+(aq) from the 2.02g of (NH4)3PO4(s)?
   5. What is the total molar concentration of NH4+(aq) from both NH4NO3(s) and (NH4)3PO4(s)?