Worksheet: Solubility Equilibria I	
1.	An experiment is conducted to determine the solubility of magnesium fluoride, and it is found that $0.0080~g$ of the compound will dissolve in $500.0~mL$ water. What is K_{sp} for MgF2?
2.	The solubility product constant for silver sulfate is 1.4×10^{-5} at 25°C. What is the solubility (g/100 mL water) of the compound?
3.	25.0 mL of a solution that is 0.0015 M in barium chloride is added to 25.0 mL of a solution that is 0.0010 M in sodium sulfate. Given that $K_{sp} = 1.1 \times 10^{-10}$ for barium sulfate, will precipitation occur or will the solution remain unsaturated? Write the equilibrium expression and provide a calculation to support your answer.

Name(s): _____