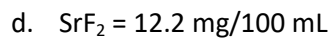
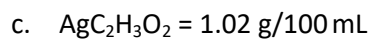
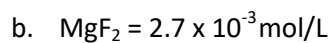
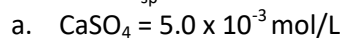
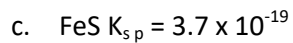
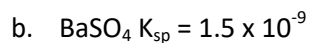
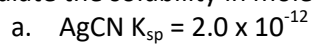


K_{sp} and Molar Solubility Problems #2

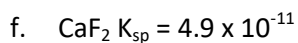
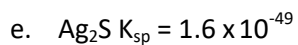
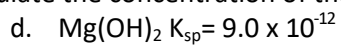
1. Calculate the K_{sp} for each of the salts whose solubility is listed below.



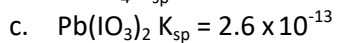
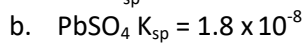
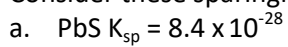
2. Calculate the solubility in moles/L of each of three salts



3. Calculate the concentration of the cations in mg/mL in each of the saturated solutions.



4. Consider these sparingly soluble salts:



i. Which is the most soluble?

ii. Calculate the solubility in moles/L for PbSO_4 .

iii. How many grams of PbSO_4 dissolve in 1 L of solution?

iv. How can you decrease the concentration of $\text{Pb}^{2+}(\text{aq})$ in a saturated solution of PbSO_4 solution?

v. What is the concentration in moles/L of PbS in a saturated solution of the salt?