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Challenge 5: Precipitation

When 0.2 mmol of NaF and 10 mmol of Ca(NO₃)₂ are combined in 1 L of water, CaF₂(s) precipitates. How much Ca²⁺ and F⁻ remain in solution. The K_{sp} of CaF₂ is 3.9 x 10⁻¹¹.

Answer: [Ca²⁺] = 9.9 mmol, [F⁻] = 0.063 mmol

