



theoretical mass = $\frac{M_{\text{KIO}_3} V_{\text{KIO}_3}}{\text{mol IO}_3^-} \times \frac{1 \text{ mol Ca}(\text{IO}_3)_2}{2 \text{ mol KIO}_3} \times \frac{\text{MM Ca}(\text{IO}_3)_2}{1 \text{ mol Ca}(\text{IO}_3)_2}$
 % yield = $\frac{\text{mass observed}}{\text{theoretical mass}} \times 100\%$

K_{sp} of $\text{Ca}(\text{IO}_3)_2$ Beaker A
 $[\text{IO}_3^-] = \frac{M_{\text{Sr}_2\text{O}_3} V_{\text{Sr}_2\text{O}_3}}{6 V_{\text{IO}_3}}$

$K_{sp} = [\text{Ca}^{+2}] [\text{IO}_3^-]^2$ $\frac{1}{2} [\text{IO}_3^-] = [\text{Ca}^{+2}]$
 $= \frac{1}{2} [\text{IO}_3^-]^3$ % error

→ Calculate $[\text{IO}_3^-]$ Beaker B

→ Show that $[\text{IO}_3^-]$ ~~decreases~~ is lower in $\text{Ca}(\text{NO}_3)_2$ soln versus DI water,