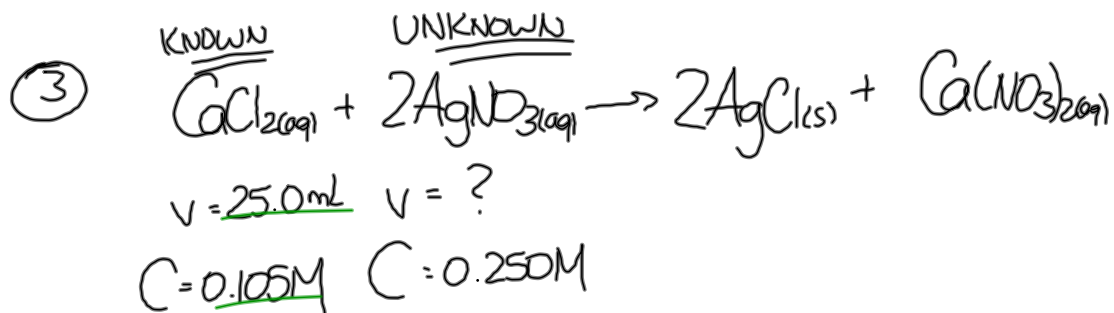


# Homework - Worksheet



Step 1: Moles Known

$$0.0250 \text{ L CaCl}_2 \times \frac{0.105 \text{ mol CaCl}_2}{1 \text{ L CaCl}_2} = 0.002625 \text{ mol CaCl}_2$$

Step 2: Moles Unknown

$$0.002625 \text{ mol CaCl}_2 \times \frac{2 \text{ mol AgNO}_3}{1 \text{ mol CaCl}_2} = 0.00525 \text{ mol AgNO}_3$$

Step 3: Volume Unknown

$$0.00525 \text{ mol AgNO}_3 \times \frac{1 \text{ L AgNO}_3}{0.250 \text{ mol AgNO}_3} = 0.0210 \text{ L AgNO}_3$$

$$\frac{0.00525 \text{ mol AgNO}_3}{0.250 \text{ mol/L AgNO}_3}$$



$$m = ? \quad m = 100.0\text{g}$$

$$100.0\text{g O}_2 \times \frac{1 \text{ mol O}_2}{32.00 \text{ g O}_2} \times \frac{2 \text{ mol SO}_2}{1 \text{ mol O}_2} \times \frac{64.06 \text{ g SO}_2}{1 \text{ mol SO}_2}$$

$$= \boxed{400.4 \text{ g SO}_2}$$

# **Stoichiometry Review Worksheet**

# Quiz - Tuesday