

key

$$\begin{array}{r} 1 _ _ \ 1 _ \ 2 _ \ 2 _ _ \\ 12 _ \ 11 _ _ \ 1 _ _ \ 12 _ \ 24 - 11 = \begin{array}{r} 0 \\ 13 \\ \hline 24 \end{array} \end{array}$$

$$25 \text{g} \overset{\text{mol}}{\cancel{\text{NaCl}}} \times \frac{\text{mol}}{58.5 \text{g}} \times \frac{1}{0.5 \text{L}} = 0.854 \frac{\text{mol}}{\text{L}} = 0.854 \text{ M}$$

$$\frac{1 \times 10^{-3} \text{ mol}}{\text{L}} \times 0.25 \text{ L} \times \frac{85 \text{ g NaNO}_3}{\text{mol}} = 0.021 \text{ g NaNO}_3$$

$$M_1 V_1 = M_2 V_2 \quad \text{mols} = \text{mols} \quad \frac{\text{mol}}{\text{L}} \cdot \text{L} = \frac{\text{mol}}{\text{L}} \cdot \text{L}$$

$$M_1 V_1 = M_2 V_2$$

$$1.0 \text{ M } V_1 = 0.01 \text{ M} \cdot 1 \text{ L}$$

$$V_1 = \frac{0.01 \text{ M} \cdot 1 \text{ L}}{1.0 \text{ M}} = 0.01 \text{ L} \rightarrow 10 \text{ mL}$$

4

$$1.20 \times 10^{-4}$$

3



xxx

12.7