

Warm Up

What volume of 0.900M KNO_3 is needed to prepare 750. mL of a 0.450M solution?

$$\begin{aligned}V_i &= ? \\C_i &= 0.900 \text{ M} \\V_F &= 750 \text{ mL} \\C_F &= 0.450 \text{ M}\end{aligned}$$

$$V_i C_i = V_F C_F$$

$$V_i (0.900 \text{ M}) = (750. \text{ mL})(0.450 \text{ M})$$

$$V_i = \frac{(750. \text{ mL})(0.450 \text{ M})}{(0.900 \text{ M})}$$

$$V_i = 375 \text{ mL}$$

Homework

Dilution Worksheet

Solutions Test

- Net Ionic Equations
- Solubility
- Concentration
- Dilutions

p. 347 #53-55

p. 499 #42, 44, 45, 48, 51-55