

$$2x \cdot .2 \frac{\text{mole}}{\text{liter}} = .1 \text{liter} \cdot .1 \frac{\text{mole}}{\text{liter}} \text{ solve , x } \rightarrow 0.025 \cdot \text{liter}$$

$$\frac{.1 \text{liter} \cdot .1 \frac{\text{mole}}{\text{liter}}}{.2 \frac{\text{mole}}{\text{liter}} \cdot .2} = 0.025 \text{ L}$$