



CONCENTRATION OF SOLUTIONS

Solve the following problems. Fill the empty boxes with the correct values. Don't forget the unit of measurement.

1. What is the concentration of 75 ml of ethanol mixed with 500 ml of water?

GIVEN: Amount of Solute =
Amount of Solution =

FORMULA: Amount of Solute = Amount of Solution x Concentration

ANSWER: Concentration = $\frac{\text{Amount of Solute}}{\text{Amount of Solution}}$ =

2. If the concentration of the solution is 2% and the volume of the solution is 250mL, what is the volume of solute in this solution?

GIVEN: Concentration =
FORMULA: Amount of Solution =
ANSWER: Amount of Solute = Amount of Solution x Concentration
Amount of Solute =

3. If I make a solution by adding water to 35 mL of methanol until the final volume of the solution is 275 mL, what is the concentration of methanol in this solution?

GIVEN: Amount of Solute =
Amount of Solution =
FORMULA: Amount of Solute = Amount of Solution x Concentration
ANSWER: Concentration = $\frac{\text{Amount of Solute}}{\text{Amount of Solution}}$ =