



# 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 = Amount of Solute =  
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 = Amount of Solute =  
Amount of Solution