1. Find the concentration of $500cm^3$ of ethyl alcohol solution which contains $50cm^3$ of ethyl alcohol.

Info: solvent ➔ water solute ➔ ethyl alcohol
solution ➔ ethyl alcohol solution

Soln % of volume per volume $= \frac{\text{volume of solute}}{\text{volume of solution}} \times 100$

$= \frac{\quad}{\quad} \times$

$=$

Therefore, the concentration of the solution is ___ % volume per volume.

2. Benjamin wants the concentration of $300cm^3$ of vinegar to be 5% volume per volume. How much acetic acid does he need to mix with water in cubic centimeter?

Info: solvent ➔ water solute ➔ acetic acid solution ➔ vinegar

Soln % of volume per volume $= \frac{\text{volume of solute}}{\text{volume of solution}} \times 100$

$= \frac{\text{volume of acetic acid}}{\quad} \times$

volume of acetic acid $=$

Therefore, he needs ___ cm^3 of acetic acid to mix with water.

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