

From Relative lowering in Vapour Pressure of solution (RLVP), we get.

$$\frac{p^{\circ} - p_s}{p^{\circ}} = X_{\text{solute}} = \frac{n}{n+N}$$

→ This formula can be modified further, to solve problem easily as

$$\frac{p^{\circ} - p_s}{p_s} = \frac{n}{N}$$