

so, add $\frac{54 \text{ g } C_6H_{12}O_6}{1,000 \text{ ml}}$

⑧ ~~since~~ since $\frac{54 \text{ g } C_6H_{12}O_6}{1,000 \text{ ml}} = .3 \text{ M GLUCOSE}$

$$\frac{54 \text{ g}}{1,000 \text{ ml}} = \frac{x}{100 \text{ ml}}$$

$$1,000 x = 5,400$$

$$x = \frac{5,400}{1,000} = 5.4 \text{ g}$$

$$\Rightarrow \frac{5.4 \text{ g}}{100 \text{ ml}} \equiv \boxed{5.4\%}$$