

24. Koliko molekula vode ima u 180g vode?

$$Mr(H_2O) = 18 \quad \text{relativna molekulska masa vode}$$

$$M(H_2O) = 18 \frac{g}{mol} \quad \text{molarna masa vode}$$

$$\begin{aligned} 1 \text{ mol}(H_2O) &\rightarrow 18g \rightarrow 6 \cdot 10^{23} \text{ molekula } H_2O \\ 180g &\rightarrow x \text{ molekula } H_2O \end{aligned}$$

$$x = \frac{180g \cdot 6 \cdot 10^{23} \text{ molekula } H_2O}{18g}$$

$$x = 60 \cdot 10^{23} \text{ molekula } H_2O$$

$$x = 6 \cdot 10^{24} \text{ molekula } H_2O$$