

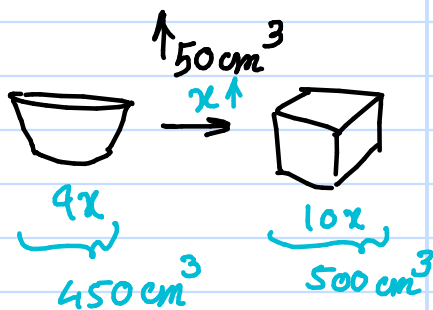
حقیقی

$$\rho = \frac{m}{V}$$

$\frac{Kg}{m^3}$        $\leftarrow Kg$   
 $\leftarrow m^3$

$$\frac{Kg}{m^3} \equiv \frac{g}{lit} \xrightarrow{\div 10^3} \frac{g}{cm^3} \equiv \frac{Kg}{lit}$$

$\xleftarrow{\times 10^3}$



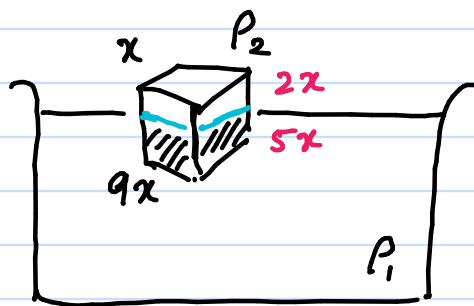
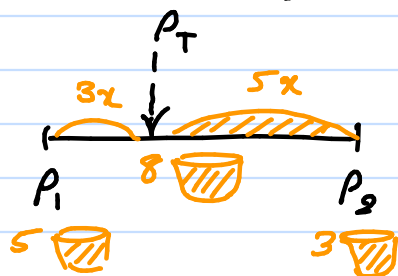
$$V_{\text{واحد}} - V_{\text{ظرف}} = \Delta V$$

مجموعی مخلوط:

$$\rho_T = \frac{m_1 + m_2}{(V_1 + V_2) \left(\frac{100+n}{100}\right)}$$

$$\rho_T = \frac{2\rho_1\rho_2}{\rho_1 + \rho_2} \quad \left. \begin{array}{l} \rho_1 \leftarrow m \\ \rho_2 \leftarrow m \end{array} \right\}$$

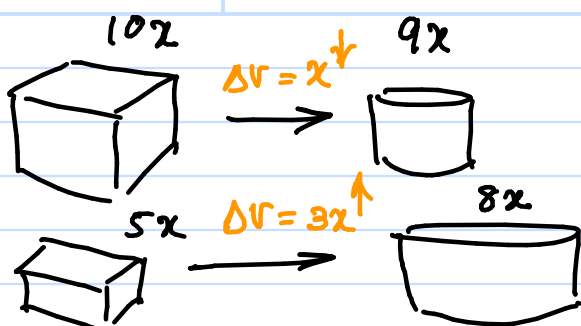
$$\rho_T = \frac{\rho_1 + \rho_2}{2} \quad \left. \begin{array}{l} \rho_1 \leftarrow V \\ \rho_2 \leftarrow V \end{array} \right\}$$



$$\frac{\rho_2}{\rho_1} \text{ کمر در آب فرو رفته}$$

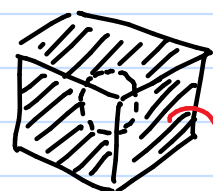
$$\frac{\rho_2}{\rho_1} = \frac{9}{10}$$

$$\frac{\rho_2}{\rho_1} = \frac{5}{7}$$



$$\frac{\rho_{\text{آب}}}{\rho_{\text{ماده}}} = \frac{9}{10}$$

$$\frac{\rho_{\text{آب}}}{\rho_{\text{ماده}}} = \frac{8}{5}$$

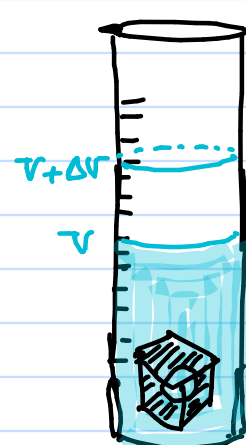


چگالی

$$\rho = \frac{m}{V}$$

مجموع کل: چگالی

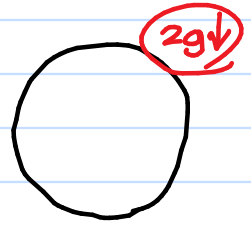
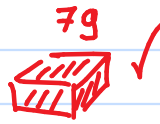
حدا  
اثر حجم



از حجم ماده توپر است

ΔV واحد = ΔV

$$\begin{cases} \rho_1 = 5 \text{ g/cm}^3 \\ \rho_2 = 7 \text{ g/cm}^3 \end{cases}$$



$$\begin{cases} V = 200 \text{ cm}^3 \\ m = 1294 \text{ g} \end{cases}$$

$$200 \times 7 = 1400 \text{ g}$$

$$1294 \text{ g} \quad \downarrow \quad 106 \text{ g}$$

$$\text{cm}^3 53 \times \rho_1$$

$$\text{cm}^3 147 \times \rho_2$$

