

$$192 + B = 225$$

$$B = 33$$

$$B = \rho g V_{\text{disp}}$$

$$33 = (1000)(9.8)V_{\text{disp}}$$

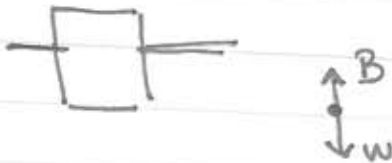
$$V_{\text{disp}} = .003367 \text{ m}^3$$

$$V = L^3 = .003367$$

$$L = .15 \text{ m} \quad \textcircled{B}$$

$$W = \rho_{\text{obj}} g V = 225 = \rho_{\text{obj}} (9.8)(.003367)$$

$$\rho_{\text{obj}} = 6819 \text{ kg/m}^3 \quad \textcircled{A}$$



~~$$\rho_{\text{Hg}} g V_{\text{sub}} = 225$$~~

$$V_{\text{sub}} = 225 / (13600 \cdot 9.8)$$

$$V_{\text{sub}} = .001688 \text{ m}^3$$

$$\text{fraction below} = .001688 / .003367 = .50 \quad \text{half below}$$