

### Question

We have:

$$g = 9.81 \frac{m}{s^2}$$

$$\rho = 13.6 \times 10^3 \frac{kg}{m^3}$$

$$P = 8.9 N$$

We will have:

$$P = m \cdot g = \rho \cdot V \cdot g \Rightarrow V = \frac{P}{\rho \cdot g} = \frac{8.9}{13.6 \cdot 10^3 \cdot 9.81} = 73.5 \cdot 10^{-6} m^3.$$

Answer:  $73.5 \cdot 10^{-6} m^3$ .