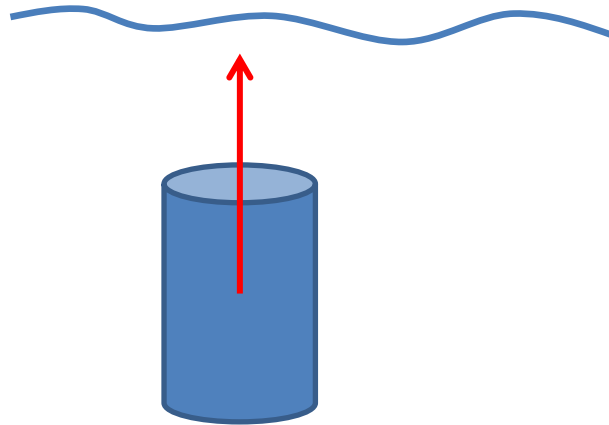


Density and Buoyancy

• Density:

$$\rho = \frac{\text{Mass}}{\text{Volume}}$$



$$\text{Bouyancy Force} = \rho_{\text{fluid}} V g$$

here V is the volume of the body, $g = 9.8\text{m/s}^2$.

Homework 19

Problem

The object weights 5 kg in the air and 3 kg in the liquid. What is the density of the liquid if the volume of the object is 100 cm^3 ?

