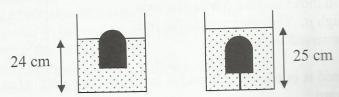
9 (b) A cylinder contains water to a height of 20 cm. A solid body of mass 0.06 kg is placed in the cylinder. It floats and the water level rises to 24 cm.



The body is then completely submerged and tied by a string to the bottom of the cylinder. The water level rises to 25 cm.

- Find (i) the relative density of the body
 - (ii) the tension in the string
 - (iii) the radius of the cylinder.

