

No. 1. State what mechanics as a branch of physics deals with. (1 mark)

❖ Study of motion of bodies under the influence of forces or motion and forces

No. 2. Figure 1 shows the change in volume of water in a measuring cylinder when an irregular solid is immersed in it.

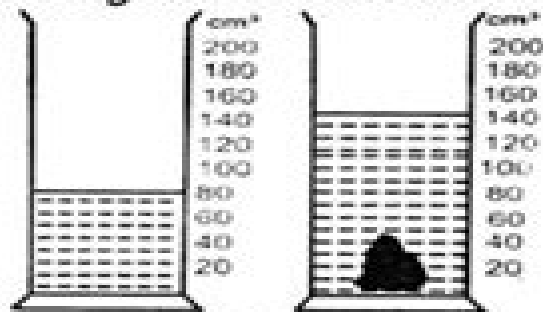


Fig 1.

Given that the mass of the solid is 567 g, determine the density of the solid in gcm^{-3} (Give your answer correct to 2 decimal places) (3 marks)

Volume = 68cm^3

Mass = 567g

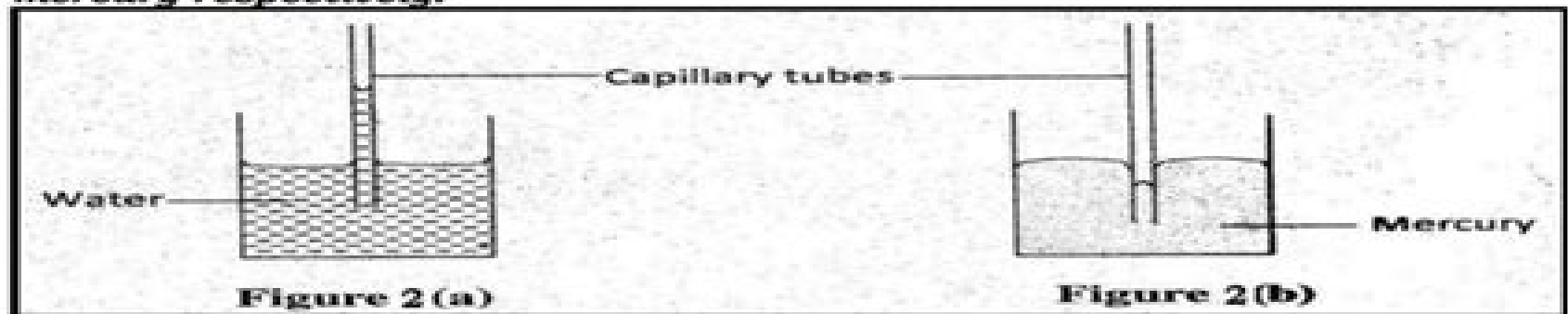
$$\text{Density} = \frac{m}{V} = \frac{567}{68}$$

$$= 8.34 \text{ g/cm}^3$$

No. 3. When a drop of oleic acid of known volume is dropped on the surface of water in a large trough, it spreads out to form a large circular patch. State one assumption made when the size of the molecule of oleic acid is estimated by determining the area of the patch. (1 mark)

❖ Drop spreads out until the patch is one molecule thick

No. 4. Figure 2(a) and 2(b) shows capillary tubes inserted in water and mercury respectively.



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