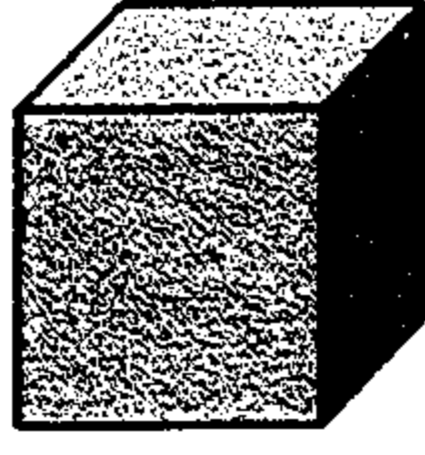


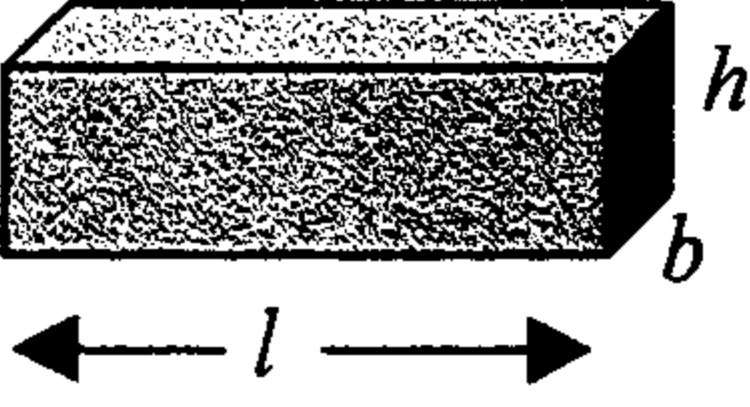
Reminder:-

**Cube**



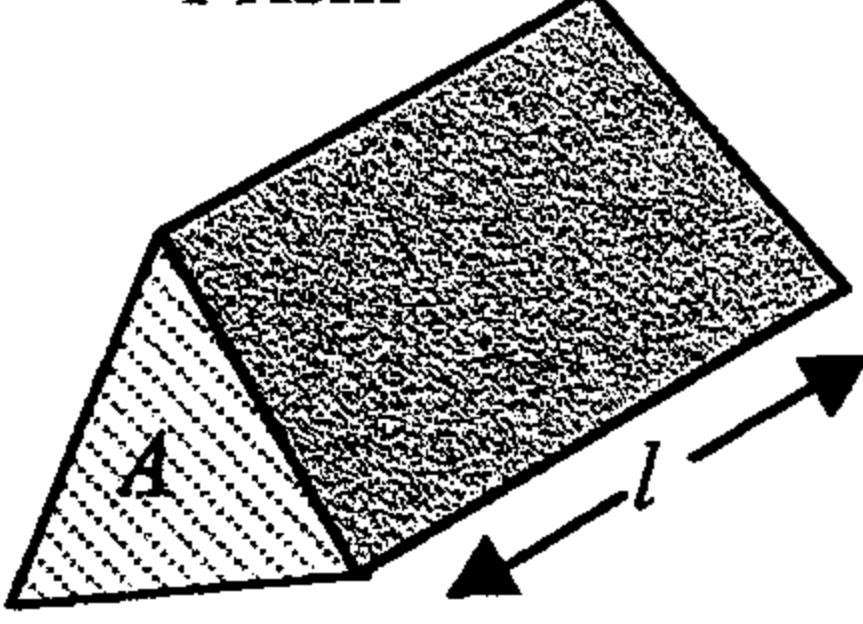
$V = l^3$

**Cuboid**



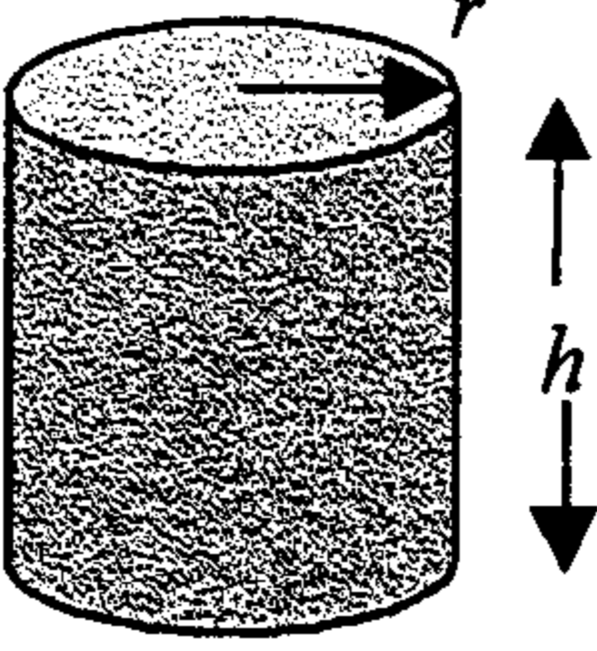
$V = lbh$

**Prism**



$V = Al$

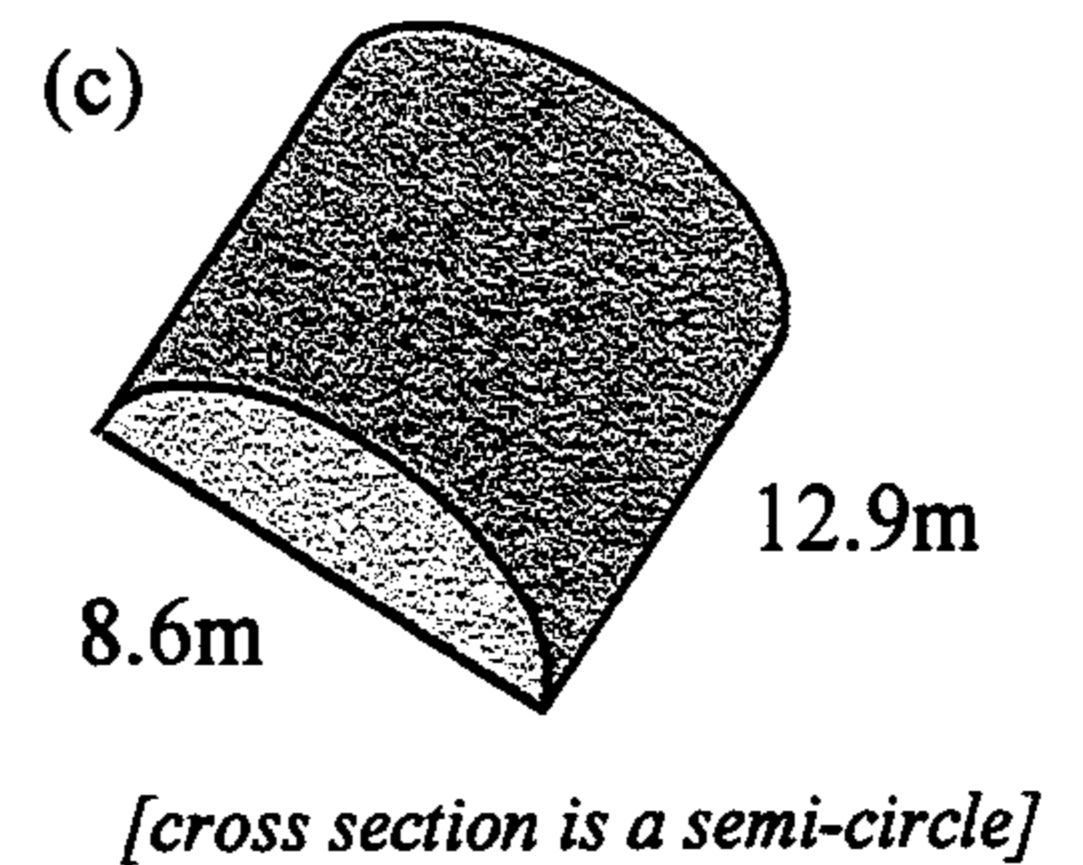
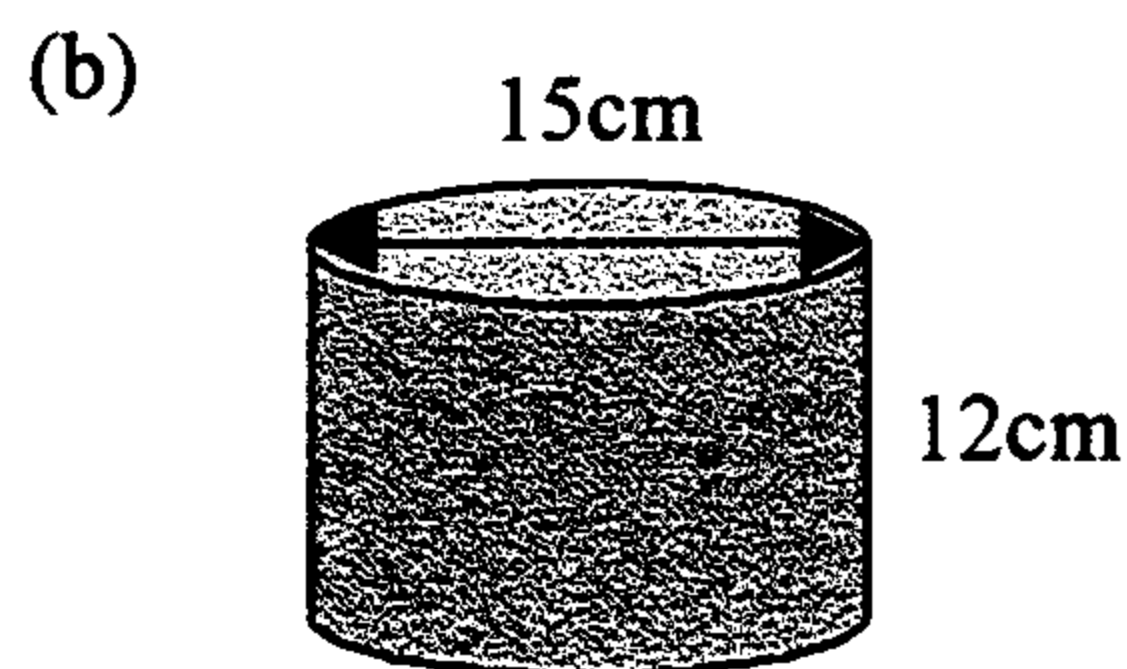
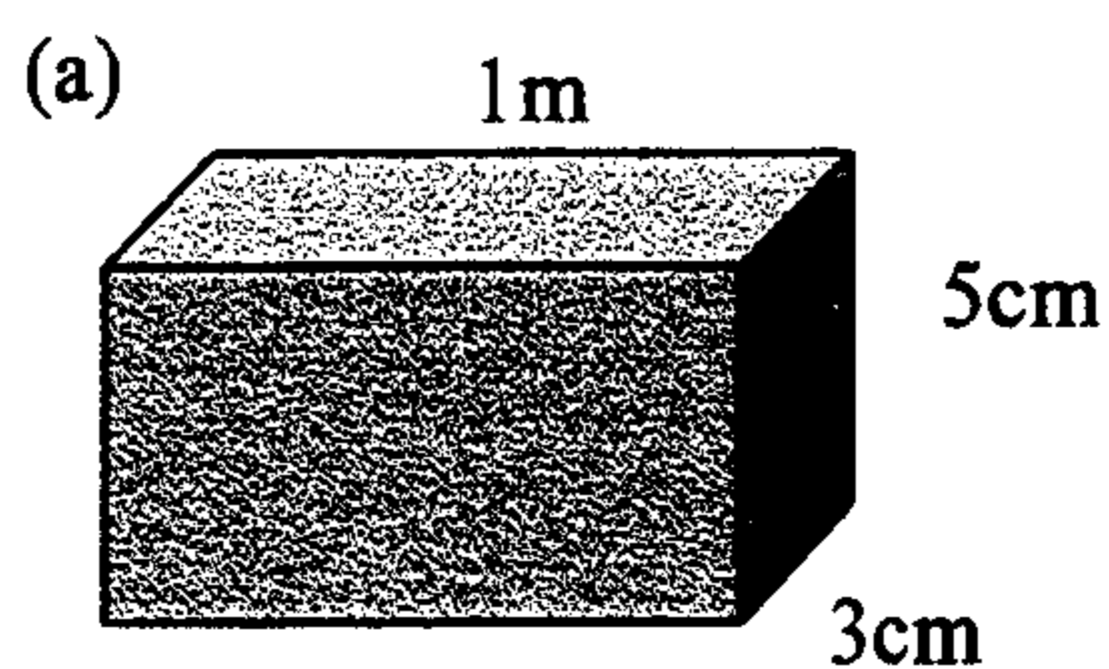
**Cylinder**



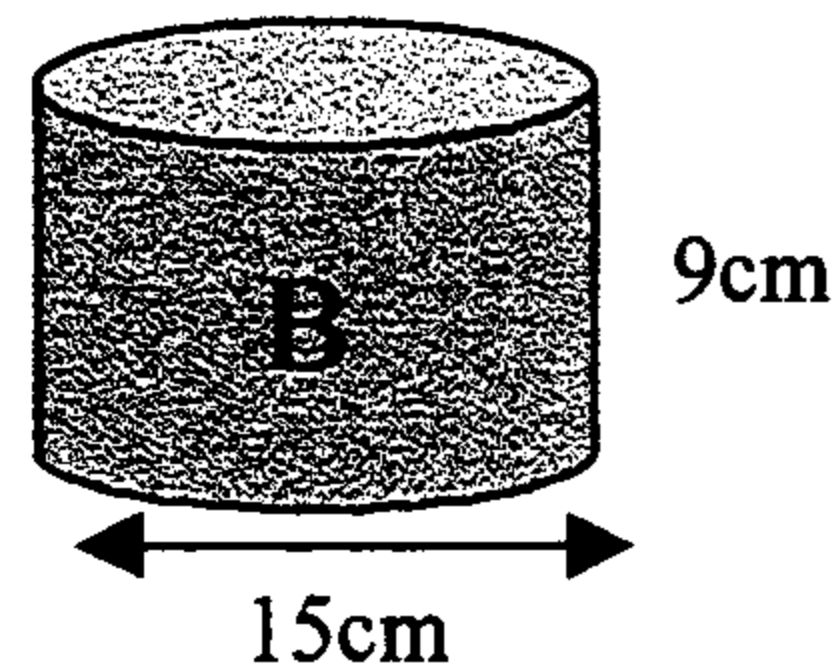
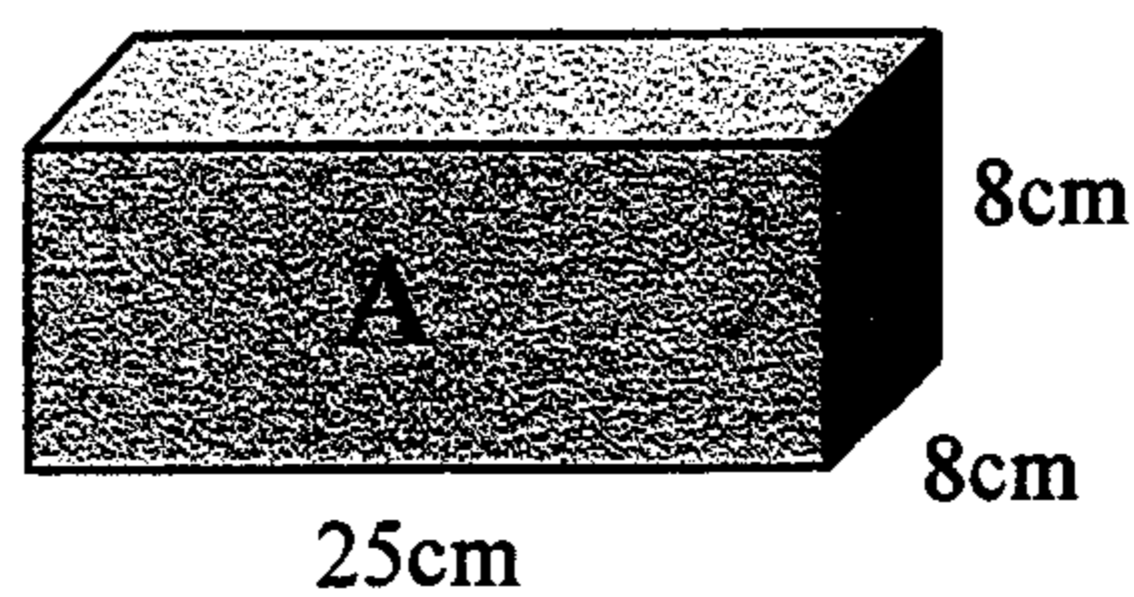
$V = \pi r^2 h$



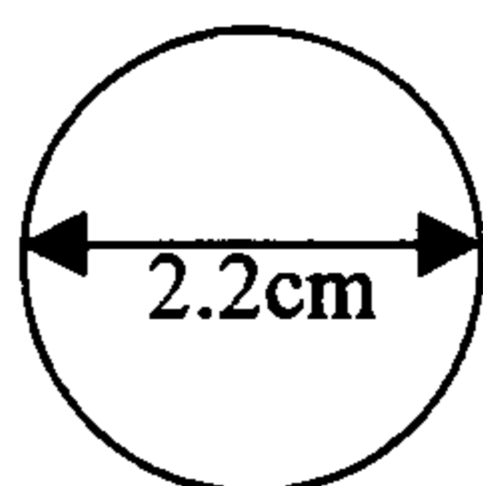
1. Calculate the volume of a cube of side 2.5cm.
2. Calculate the volume of a cuboid 1.5m by 1.2m by 0.8m.
3. Calculate the volume of a prism with cross-sectional area  $10.8\text{cm}^2$  and length 16cm.
4. Calculate the volume of a cylinder of radius 3.25cm and height 17cm.
5. Calculate the volume of the following solids:-



6. Water is poured from the tank A into the empty cylinder B. Will all the water go in?



7. The one pound coin has a diameter of 2.2cm and a thickness of 3mm.



- (a) calculate the volume of metal required to make a £1 coin.
- (b) how many coins can be made using  $6580\text{cm}^3$  of metal?

8. The cuboid shown is solid metal. It is melted down and made into a solid cylinder of radius 9cm. Calculate the height of this cylinder.

