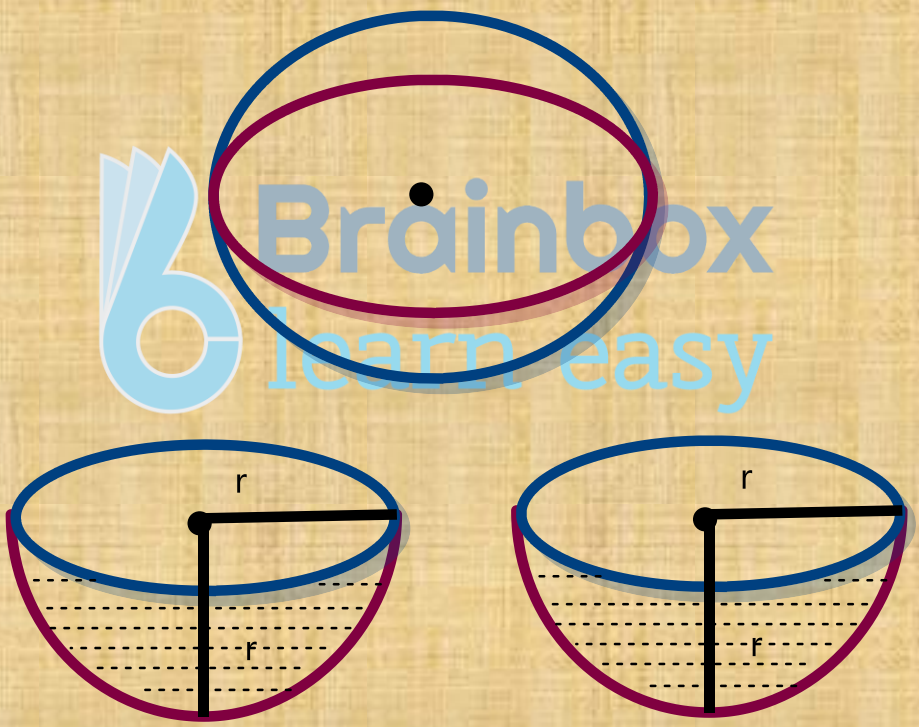
CHAPTER 13

Surface areas and Volumes

Hemisphere:

A plane passing through the centre of a sphere divides the sphere into two equal parts each part of sphere is called the hemisphere.

Hemisphere



Example: Half cutted watermelon

Curved surface area and total surface area:

Curved surface area $= \frac{1}{2} \times \left(4\pi r^2\right) = 2\pi r^2$

Total surface area = Curved surface area + Area of the top

$$= 2\pi r^2 + \pi r^2$$

Total surface area = $3\pi r^2$