

Volume of Solids

Volume of a cylinder

 \sim Volume of a cylinder, if the base radius is r and perpendicular height is $h = \pi r^2 h$

Volume of a triangular prism

∽ Volume of the Prism = Area of the triangular cross section × perpendicular height (length)



Find the volume of the cylinder

$$\pi r^{2}h$$

$$= \frac{22}{7} \times 7 \times 7 \times 20$$

$$= 3080 cm^{3}$$

2. Find the volume of the prism



Exercises :-

- 1. Find the volume of the right circular cylinder of radius 14cm and height 25cm.
- 2. The diameter of the cylindrical shaped water tank is 105cm and height is 1m. Find the capacity of the tank in liters. $(1cm^3 = 1ml)$
- 3. If the mass of $1cm^3$ of this metal solid is 3g,find the mass of this solid.



4. Area of the cross section of the triangular prism is $54cm^2$ and its volume is $702cm^3$. Find the length of the prism.



Find the volume of the prism.

6. The mass of $1cm^3$ of this glass prism is 1.5g. Find the total mass of this prism.

