1) How to compute the area of basic 2 D shapes?


| Area of Parallelogram | $A=b \times h$ |
| :--- | :--- |
| Area of Circle |  |

2) How to compute the Surface Area (SA) of basic 3D shapes?


| Surface Area of Cylinder | $S A=\left(2 \pi r^{2}\right)+(2 \pi r h)$ |
| :---: | :---: |
| Surface Area of a square Pyramid | $S A=[$ Base Area $]+4($ Area of Triangular face $)$ $S A=(a \times b)+4\left(\frac{1}{2} b \times h\right)$ |
|  |  |

Surface Area of Sphere

3) How to compute the volume of basic 3 D shapes?

| Shape And Diagram | Formula of Volume | Example |
| :---: | :---: | :---: |
| Cone | Volume $=1 / 3 \times$ Base $\times$ Height <br> Base $=\operatorname{Pi} X$ Radius^2 | $\begin{aligned} & \text { Radius }=4 \mathrm{~cm} \\ & \text { Height }=12 \mathrm{~cm} \\ & =1 / 3 \times(\text { piX4^2) } \times 12 \\ & =201.1 \mathrm{~cm}^{\wedge} 3 \end{aligned}$ |
| Sphere | Volume $=4 / 3 \mathrm{X}$ pi X radius^2 | $\begin{aligned} & \text { Radius }=4 \mathrm{~cm} \\ & =4 / 3 \times \text { pi X } 4 \wedge 2 \\ & =67.0 \mathrm{~cm}^{\wedge} 3 \end{aligned}$ |



