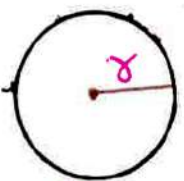

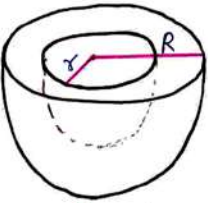
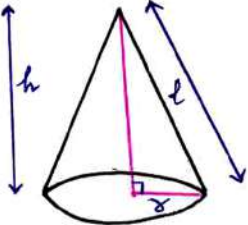




## SURFACE AREAS AND VOLUMES

FIGURES	CURVED/LATERAL SURFACE AREA	TOTAL SURFACE AREA	VOLUME	REMARKS
 <p style="text-align: center;">SPHERE</p>	$4\pi r^2$ sq. units	$4\pi r^2$ sq. units	$\frac{4}{3}\pi r^3$ cubic units	$r$ = radius of sphere
 <p style="text-align: center;">HEMISPHERE</p>	$2\pi r^2$ sq. units	$2\pi r^2 + \pi r^2 = 3\pi r^2$ sq. units	$\frac{2}{3}\pi r^3$ cubic units	$r$ = radius of hemisphere
 <p style="text-align: center;">HOLLOW HEMISPHERE</p>	$2\pi(R^2 + r^2)$ sq. units	$2\pi(R^2 + r^2) + \pi(R^2 - r^2)$ sq. units	$\frac{2}{3}\pi(R^3 - r^3)$ cubic units	$R$ = external radius of hollow hemisphere $r$ = internal radius of hollow hemisphere
 <p style="text-align: center;">CONE</p>	$\pi r l$ sq. units	$\pi r^2 + \pi r l$ sq. units	$\frac{1}{3}\pi r^2 h$ cubic units	$h$ = height of cone $r$ = radius of cone $l$ = slant height of cone $l = \sqrt{r^2 + h^2}$