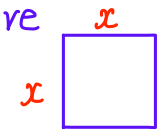
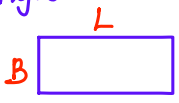
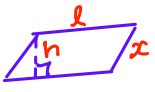
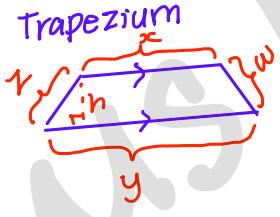
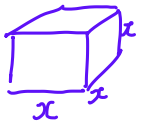
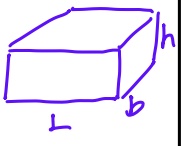
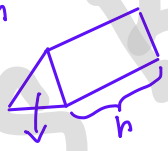
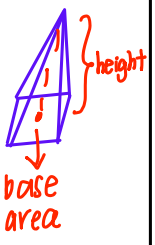
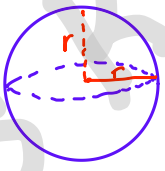
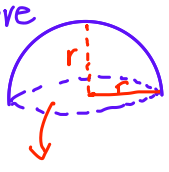
Area and Perimeter of 2D Figure

2D Figure	Perimeter	Area
Square 	$4x$	x^2
Rectangle 	$2L + 2B$	$L \times B$
Parallelogram Rhombus 	$2l + 2x$	$l \times h$
Trapezium 	$w + x + y + z$	$\frac{1}{2} \times (\text{sum of parallel lines}) \times \text{height}$ $= \frac{1}{2} \times (x+y) \times h$
Circle 	$2\pi r$ or πd	πr^2

Surface area and Volume of solid

Solid	Volume	Surface Area
Cube 	x^3	$6x^2$
Cuboid 	$L \times b \times h$	$2(Lb) + 2(Lh) + 2(bh)$
Cylinder 	$\pi r^2 h$	$2\pi r^2 + \underbrace{2\pi rh}_{\text{curved surface area}}$
Prism  cross-section area (CSA)	cross-section area $\times$ h	$2\,\text{CSA} + \underbrace{(\text{perimeter of CSA} \times h)}_{\text{area of lateral faces}}$

Surface area and Volume of solid

Solid	Volume	Surface Area
Pyramid 	$\frac{1}{3}$ x base area x height	base area + area of lateral faces
Cone 	$\frac{1}{3}\pi r^2 h$	$\pi r^2 + \pi r l$ (curved surface area), where $l = \sqrt{r^2 + h^2}$ (by pythagoras' theorem)
Sphere 	$\frac{4}{3}\pi r^3$	$4\pi r^2$
Hemisphere 	$\frac{1}{3}\pi r^3$	$2\pi r^2 + \pi r^2$ (curved surface area + base area)