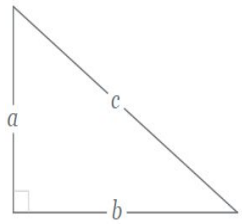
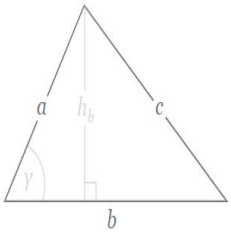
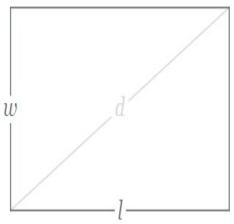
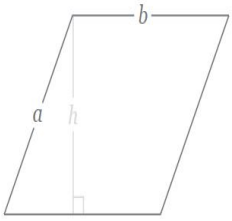
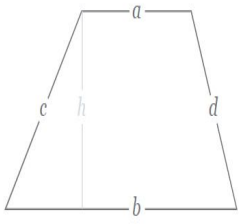
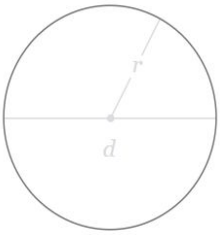
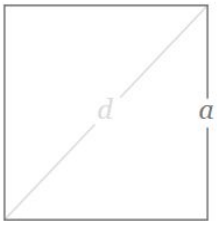
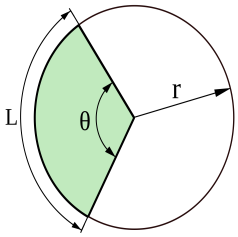
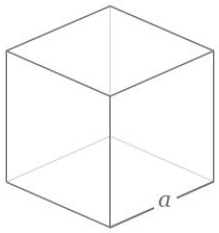
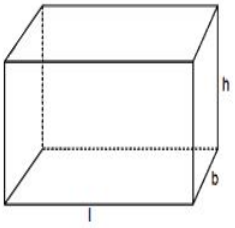
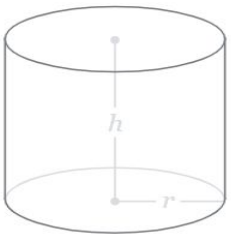
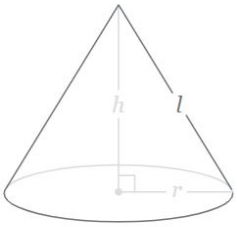
Geometry Formulas List

Shape	Formulas	Figure
Right Triangle	Pythagoras Theorem: $a^2 + b^2 = c^2$ Area = ½ **ab** Perimeter = **a + b +** $\sqrt{(a^2 + b^2)}$	
Triangle	Perimeter, P = **a + b + c** Area, A = ½ **b.h** Height, h = **2(A/b)**	
Rectangle	Perimeter = **2(l + w)** Area = **l.w** Diagonal, d = $\sqrt{(l^2 + w^2)}$	
Parallelogram	Perimeter, P = **2(a + b)** Area, A = **b.h** Height, h = **A/b**	

	Base, b = **A/h**	
Trapezium	Perimeter, P = **a + b + c + d** Area, A = **½(a + b).h** Height, h = **2. A/(a + b)** Base, b = **2.(A/h) - a**	
Circle	Circumference **= 2.π.r** Area **= π.r^2** Diameter = **2.r**	
Square	Perimeter, P = **4.a** Area, A = **a^2** Diagonal, d = **a.√2** Side, a = **√A = d/2.√2**	
Arc	Arc Length, L **= r.θ** Area, A = **½.r^2 .θ** Here, **θ** is the central angle is radians.	

Cube	Area, A = $\mathbf{6.a^2}$ Volume, V = $\mathbf{a^3}$ Edge, a = $\mathbf{V^{⅓}}$ Space diagonal = $\mathbf{a.\sqrt{3}}$	
Cuboid	Surface Area, A = **2(lb + bh + hl)** Volume, V = **l.b.h** Space diagonal, d = $\sqrt{(\mathbf{l^2 + b^2 + h^2})}$	
Cylinder	Total Surface Area, A = $\mathbf{2\pi rh + 2\pi r^2}$ Curved Surface Area, Ac = **2πrh** Volume, V = $\mathbf{\pi r^2 h}$ Base Area, Ab = $\mathbf{\pi r^2}$ Radius, r = $\sqrt{\mathbf{(V/\pi h)}}$	
Cone	Total Surface Area, A = $\mathbf{\pi r(r+l) = \pi r[r+\sqrt{(h^2 + r^2})]}$ Curved Surface Area, Ac = **πrl** Volume, V = $\mathbf{⅓\pi r^2 h}$ Slant Height, l = $\sqrt{\mathbf{(h^2 + r^2})}$ Base Area, Ab = $\mathbf{\pi r^2}$	

Sphere	Surface Area, A = $4\pi r^2$ Volume, V = $\frac{4}{3}\pi r^3$ Diameter = **2r**