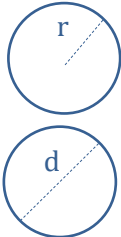
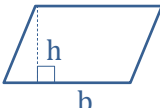
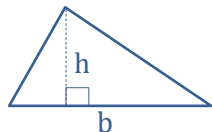
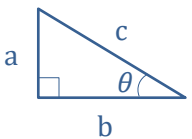
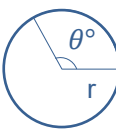
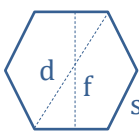
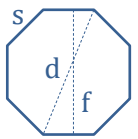
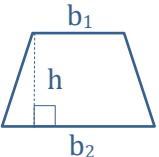
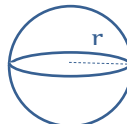
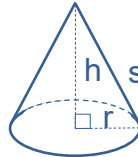
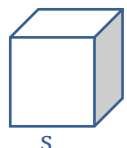
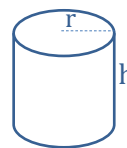
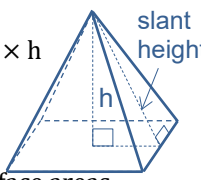


Basic Geometry Formulas

Circle $\text{Area} = \pi r^2$ $\text{Circumference} = 2\pi r$ $d = 2r$ $\text{Area} = 0.7854d^2$ $\text{Circumference} = \pi d$ 	Rectangle $\text{Area} = l \times w$ $\text{Perimeter} = 2(l + w)$ 	Parallelogram $\text{Area} = b \times h$ 	Triangle $\text{Area} = \frac{1}{2}bh$ 
Pythagorean theorem $a^2 + b^2 = c^2$ $\sin \theta = \frac{a}{c}$ $\cos \theta = \frac{b}{c}$ $\tan \theta = \frac{a}{b}$ 	Sector of Circle $\text{Sector Area} = \frac{\text{total area} \times \theta^\circ}{360^\circ}$ $\text{Arc Length} = \frac{\text{circumference} \times \theta^\circ}{360^\circ}$ 	Hexagon $A \approx 0.866f^2$ $\approx 0.650d^2 \approx 2.598s^2$ A- area f- distance across flats d- distance across corners (diagonal) s- side 	Octagon $A \approx 0.828f^2$ $\approx 0.707d^2 \approx 4.828s^2$ A- area f- distance across flats d- distance across corners (diagonal) s- side 
Trapezoid $\text{Area} = \frac{1}{2}h(b_1 + b_2)$ 	Sphere $\text{Volume} = \frac{4}{3}\pi r^3$ $\text{Surface Area} = 4\pi r^2$ 	Cone $\text{Volume} = \frac{1}{3}\pi r^2 h$ $\text{Surface Area} = \pi r^2 + \pi r s$ $\text{Lateral Surface Area} = \pi r s$ s- slant height 	Cuboid/Rectangular solid $\text{Volume} = l \times w \times h$ $\text{Surface Area} = 2lw + 2wh + 2hl$ $\text{Lateral Surface Area} = 2(l + w)h$ 
Cube $\text{Volume} = s^3$ $\text{Surface Area} = 6s^2$ 	Cylinder $\text{Volume} = \pi r^2 h$ $\text{Surface Area} = 2\pi r^2 + 2\pi r h$ $\text{Lateral Area} = 2\pi r h$ 	Right Pyramid $\text{Volume} = \frac{1}{3} \times \text{base area} \times h$ $\text{Surface Area} = \text{base area} + \text{lateral surface areas}$ $\text{Lateral Surface Area} = \frac{1}{2} \times \text{Perimeter of base} \times \text{Slant height}$ 	Right Prism $\text{Volume} = \text{base area} \times h$ $\text{Surface area} = \text{base areas} + \text{lateral face areas}$ $\text{Lateral Surface Area} = \text{sum of face areas}$ 