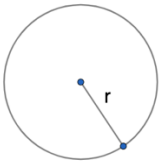
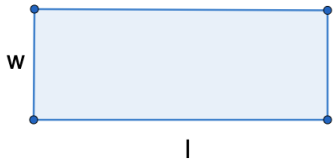
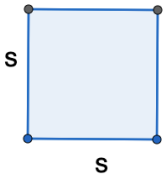
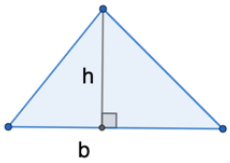
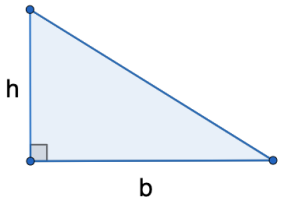
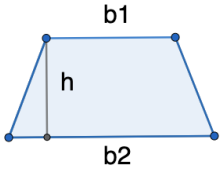
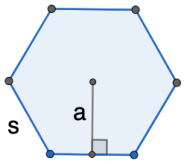
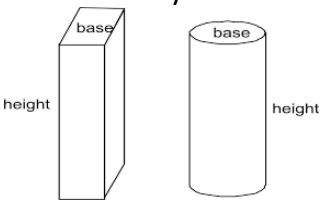
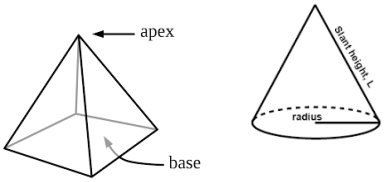
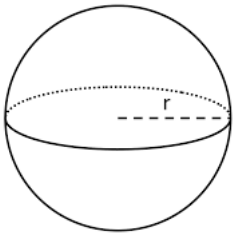
Formulas for Area and Perimeter of 2-D Shapes

Circle 	$Area = \pi r^2$ $Circumference = 2\pi r = \pi d$
Rectangle 	$Area = l \times w$
Square 	$Area = s^2$
Triangle  	$Area = \frac{b \times h}{2}$
Trapezoid 	$Area = \frac{(base1 + base2)}{2} \times h$
Regular Polygon  n = # of sides	$Area = \frac{n \times s \times a}{2}$

Formulas for Area and Volume of 3D Solids

Prisms and Cylinders  Prisms: Base is always the non-rectangular face. Cylinders: Base is always the circle.	$LA = Perimeter\ of\ Base\ \times height$ $SA = LA + 2 \times Area\ of\ base$ $V = Area\ of\ base\ \times height$
Pyramids and Cones  Pyramid: Base is always the non-triangular face. Cone: Bas is always the circle.	$LA = \frac{Perimeter\ of\ Base\ \times slant\ height}{2}$ $SA = LA + Area\ of\ base$ $V = \frac{Area\ of\ base\ \times height}{3}$
Sphere  	$A = 4\pi r^2$ $V = \frac{4}{3}\pi r^3$