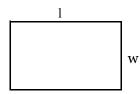
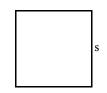
A-2 Geometry

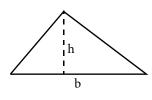
Plane Geometry



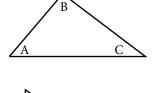
Rectangle Area: A = lwPerimeter: P = 2l + 2w



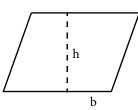
Square Area: $A = s^2$ Perimeter: P = 4s



Triangle
Area: $A = \frac{1}{2}bh$ Sum of angles: $A + B + C = 180^{\circ}$



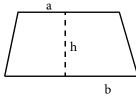
Right Triangle Pythagorean Theorem: $a^2 + b^2 = c^2$



Parallelogram Area: A = b • h

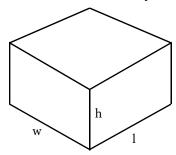
Trapezoid

Area: A = 1/2h(a + b)

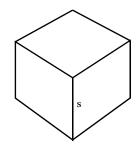


Circle
Area: $A = \pi r^2$ Circumference: $C = \pi d = 2\pi r$

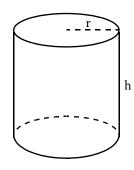
Solid Geometry



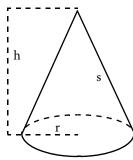
Rectangular Solid Volume: V = lwh



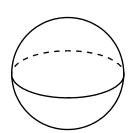
Cube Volume: $V = s^3$



Right Circular Cylinder Volume: $V = \pi r^2 h$ Lateral Surface Area: $L = 2\pi rh$ Total Surface Area: $S = 2\pi rh + 2\pi r^2$



Right Circular Cone Volume: $V = \frac{1}{3}\pi r^2 h$ Lateral Surface Area: $L = \pi rs$ Total Surface Area: $S = \pi r^2 + \pi rs$



Sphere Volume: $V = {}^4/_3\pi r^3$ Surface Area: $S = 4\pi r^2$