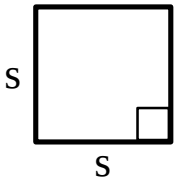
Houston Community College

PLANE GEOMETRY

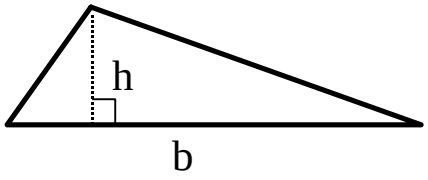
Rectangle
Area: A = lw
Perimeter: P = 2l + 2w

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

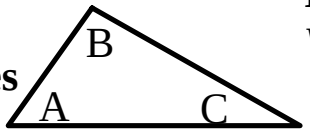


Triangle
Area:

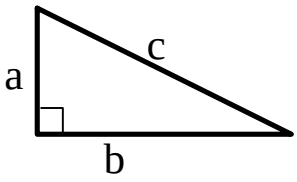
$$A = \frac{b \bullet h}{2}$$



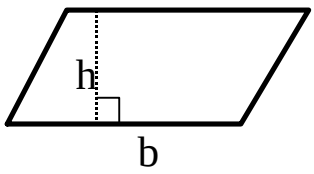
Sum of Angle Measures
$A + B + C = 180^o$



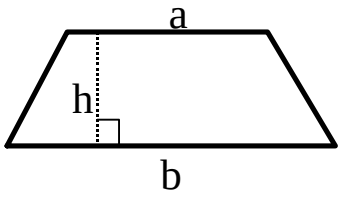
Right Triangle
Pythagorean Theorem:
$a^2 + b^2 = c^2$



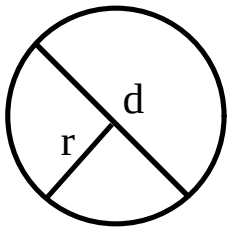
Parallelogram
Area: A = bh



Trapezoid
Area: $A = {}^1/_2h(a+b)$



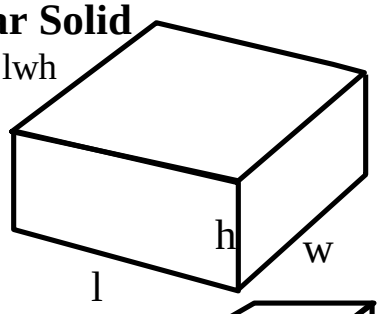
Circle
Area: $A = \pi r^2$
Circumference:
$C = \pi d$ or $C = 2\pi r$
$\pi = {}^{22}/_7$ or $\pi = 3.14$



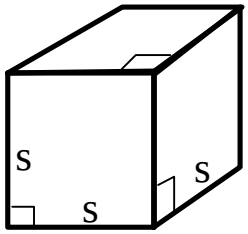
$$\frac{\text{arc length}}{\text{circumference}} = \frac{angle}{360^0}$$

SOLID GEOMETRY

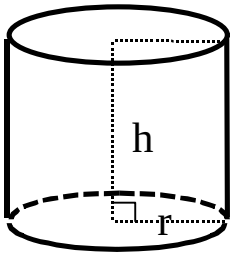
Rectangular Solid
Volume: V = lwh



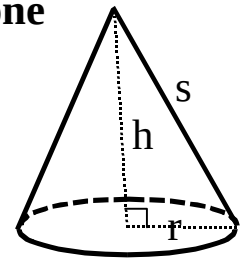
Cube
Volume: $V = s^3$



Right Circular Cylinder
Volume: $V = \pi r^2 h$



Right Circular Cone
Volume: $V = {}^1/_3\pi r^2 h$



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