Math Garden Cards

FORMULAS

TRIANGLES

ANGLES

Math Cards

Developed for use with the Interactive Math Garden

Acute Angle
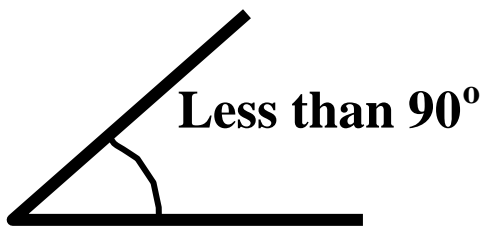
Less than 90°

Right Angle

Equals 90°

Obtuse Angle

More than 90°

Straight Angle

Equals 180°

Image Credits:
Shapes - http://math.about.com/library/blmeasurement.htm
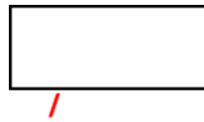Triangles - http://www.mathsisfun.com/triangle.html
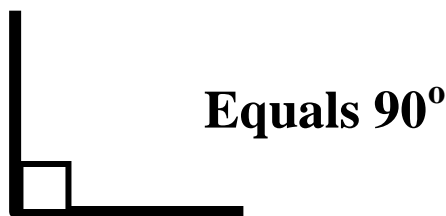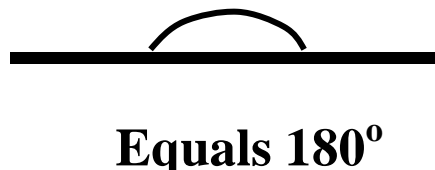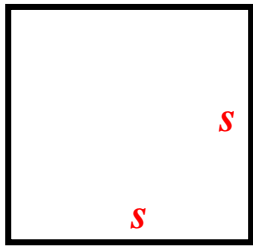
Square

$P = 4s$

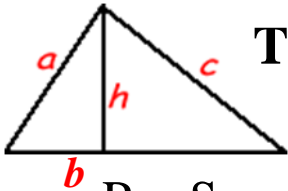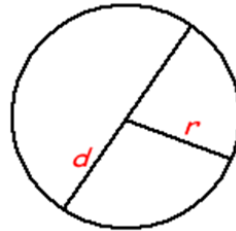$A = s^2$

Rectangle

$P = 2l + 2w$

$A = lw$

Triangle

$P = \text{Sum of sides}$

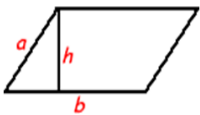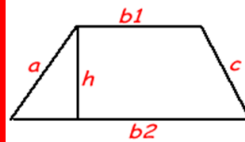$A = \frac{1}{2}(Bh)$

Circle

$C = 2\pi r$

$A = \pi r^2$

Parallelogram

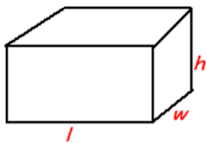$P = \text{Sum of sides}$
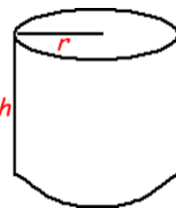
$A = Bh$

Trapezoid

$P = \text{Sum of sides}$

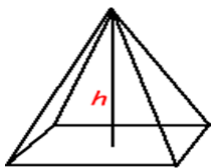$A = \frac{1}{2}h\,(B_1 + B_2)$

Rectangular Solid

$V = lwh$

$SA = \text{Sum of areas of all faces}$

Cylinder

$V = \pi r^2 h$

$SA = 2\pi rh + 2\pi r^2$

Pyramid

$V = \frac{1}{3}Bh$

$SA = \text{Area of base + Area of all triangular faces}$
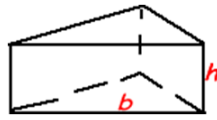
Cone

$V = \frac{1}{3}\pi r^2 h$

$SA = \pi r^2 + \pi rs$

Sphere

$V = 4/3\pi r^3$

$SA = 4\pi r^2$

Prism

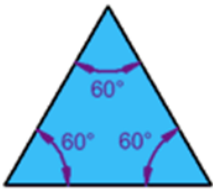$V = Bh$

$SA =$ Sum of the areas of all faces

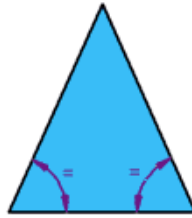## Equilateral Triangle

3 equal sides

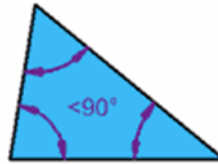3 equal angles

60° 60° 60°

Isosceles Triangle

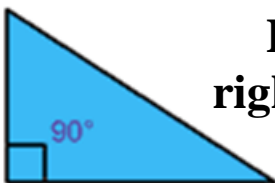2 equal sides

2 equal angles

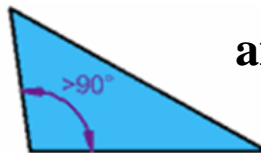## Scalene Triangle

No equal sides or angles

Acute Triangle

All angles less than 90°

<90°

Right Triangle

Has a right angle

90°

Obtuse Triangle
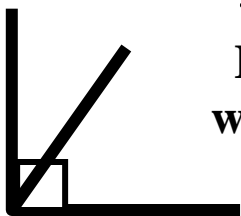
Has an angle more than 90°

>90°

Complementary Angles

Equal 90° when added together

Supplementary Angles

Equal 180° when added together