

# Math Garden Cards

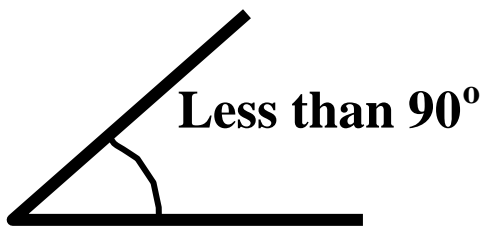
**FORMULAS**

**TRIANGLES**

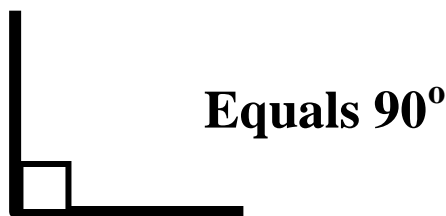
**ANGLES**

**Math Cards**  
*Developed for use with the  
Interactive Math Garden*

**Acute Angle**



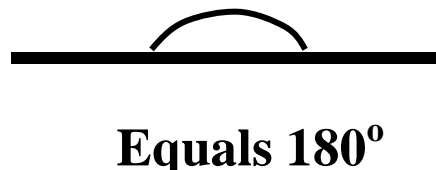
**Right Angle**



**Obtuse Angle**



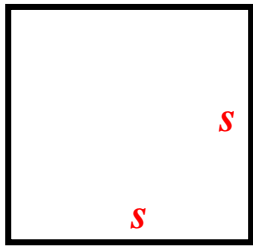
**Straight Angle**



**Image Credits:**

Shapes - <http://math.about.com/library/blmeasurement.htm>

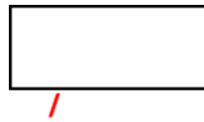
Triangles - <http://www.mathsisfun.com/triangle.html>



### Square

$$P = 4s$$

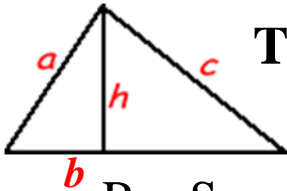
$$A = s^2$$



### Rectangle

$$P = 2l + 2w$$

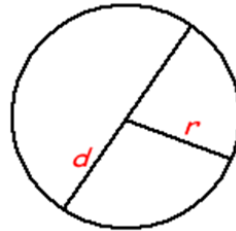
$$A = lw$$



### Triangle

$P = \text{Sum of sides}$

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

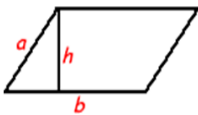


### Circle

$$C = 2\pi r$$

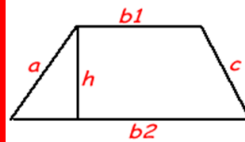
$$A = \pi r^2$$

### Parallelogram



$P = \text{Sum of sides}$

$$A = Bh$$

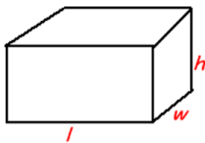


### Trapezoid

$P = \text{Sum of sides}$

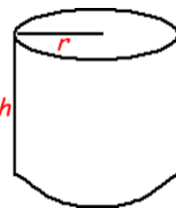
$$A = \frac{1}{2}h (B_1 + B_2)$$

### Rectangular Solid



$$V = lwh$$

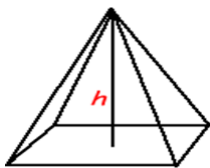
$SA = \text{Sum of areas of all faces}$



### Cylinder

$$V = \pi r^2 h$$

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



### Pyramid

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

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



### Cone

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

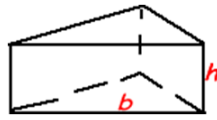
$$SA = \pi r^2 + \pi r s$$



### Sphere

$$V = \frac{4}{3}\pi r^3$$

$$SA = 4\pi r^2$$

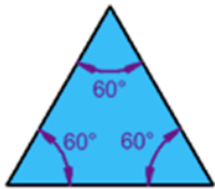


### Prism

$$V = Bh$$

SA = Sum of the areas of all faces

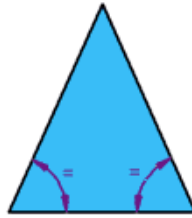
### Equilateral Triangle



3 equal sides

3 equal angles

### Isosceles Triangle



2 equal sides

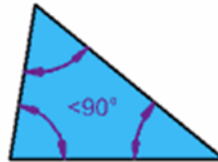
2 equal angles

### Scalene Triangle



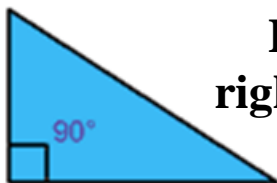
No equal sides or angles

### Acute Triangle



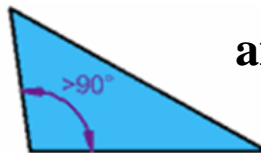
All angles less than 90°

### Right Triangle



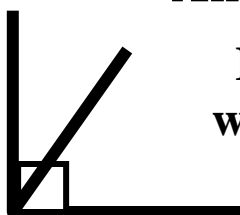
Has a right angle

### Obtuse Triangle



Has an angle more than 90°

### Complementary Angles



Equal 90° when added together

### Supplementary Angles



Equal 180° when added together