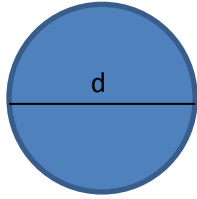




Geometric Formulas

Circles (360°)



d = diameter
 $\frac{1}{2} d$ = radius

Area

$$A = \pi r^2$$

Circumference

$$C = 2\pi r \text{ or } \pi d$$

Sphere

Volume

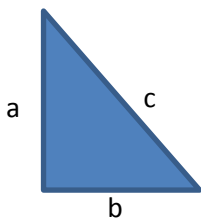
$$V = \frac{4}{3} \pi r^3$$

Triangles (180°)

Area

$$A = \frac{1}{2} bh$$

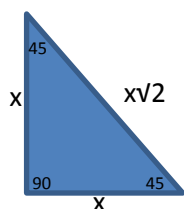
Pythagorean Theorem



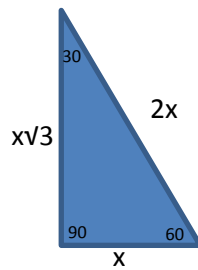
$$a^2 + b^2 = c^2$$

Special Right Triangles

45-45-90



30-60-90



Squares (360°)



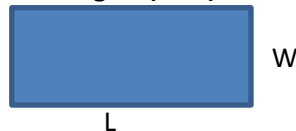
Perimeter

$$4s$$

Area

$$A = s^2$$

Rectangles (360°)



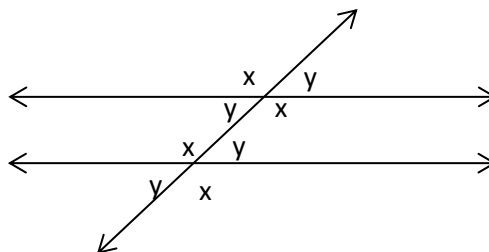
Perimeter

$$2L + 2W$$

Area

$$A = LW$$

Parallel Lines and Transversals



Angles indicated by "x" are all congruent. Angles indicated by "y" are all congruent.
 $x + y = 180^\circ$

Polygons (5+ sides)

Divide into triangles from a common vertex and add up each 180° section.

In the figure below, there are 4 triangles: $4 * 180 = 720^\circ$

