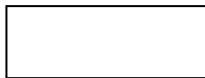


## Areas and Perimeters of Rectangles, Triangles, Parallelograms, Trapezoids and Circles

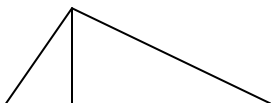
Rectangles



Area = Length x Width = Base x Height

Perimeter = 2 x Length + 2 x Width = 2L + 2W

Triangles

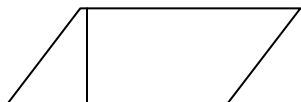
Area =  $\frac{1}{2}$  Base x Height OR

$$A = \sqrt{s(s-a)(s-b)(s-c)}$$

where  $s = \frac{1}{2}(a+b+c)$

Perimeter =  $a + b + c$  where a, b, c are the side lengths

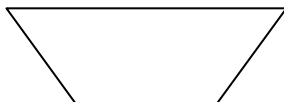
Parallelograms



Area = Base x Height

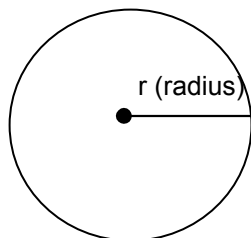
Perimeter = distance around the outside

Trapezoids

Area =  $\frac{1}{2}$  x Height x Sum of the Bases

Perimeter = distance around the outside

Circles

Area =  $\pi$  x Radius Squared ( $\pi$  is approximately 3.14)Circumference =  $2\pi r$  where r is the radiusPythagorean Theorem:  $a^2 + b^2 = c^2$ 