

GEOMETRY AREA REFERENCE CHART

Square

$$A = s^2$$

s = side length

Rectangle

$$A = w \times l$$

w = width, l = length

Triangle

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

b = base, h = vertical height

Circle

$$A = \pi r^2$$

r = radius, $\pi \approx 3.14159$

Parallelogram

$$A = bh$$

b = base, h = vertical height

Trapezoid

$$A = \frac{1}{2}(a + b)h$$

a, b = parallel sides, h = height

Ellipse

$$A = \pi ab$$

a = semi-major axis, b = semi-minor axis

Regular Polygon

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

a = apothem, p = perimeter