

Area Formulas

b = base

h = height

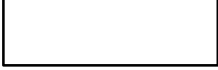
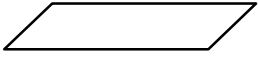
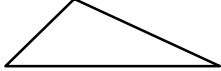
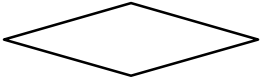






d = diagonal

n = number of sides

s = side length

a = apothem

r = radius

Shape	Formula	
Rectangle	bh	
Parallelogram	bh	
Triangle	$\frac{1}{2}bh$ or $\frac{1}{2}bc \sin(A)$	
Rhombus or kite	$\frac{1}{2} d_1d_2$	
Trapezoid	$\frac{(b_1 + b_2)}{2} h$	
Regular Polygon If you know the:		
Side length & apothem	$\frac{1}{2} nsa$	
Radius	$n r^2 \sin\left(\frac{180}{n}\right) \cos\left(\frac{180}{n}\right)$	
Apothem	$na^2 \tan\left(\frac{180}{n}\right)$	
Circle	$r^2\pi$	
Sector	$\left(\frac{Angle}{360}\right) r^2\pi$	

Circles

Circumference = Diameter π

Arc Length = $\left(\frac{Angle}{360}\right)$ Diameter π

Similar Figures

Ratio = $\frac{Big Length}{Small Length}$

Big Perimeter = Ratio(Small Perimeter)

Big Area = Ratio²(Small Area)