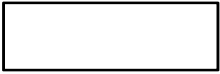
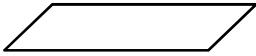
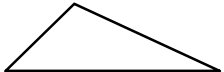
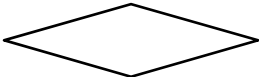

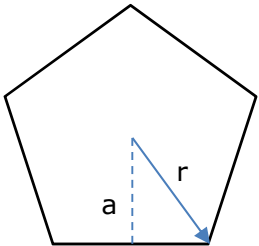




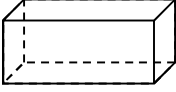
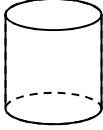
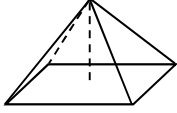
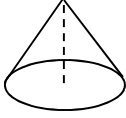
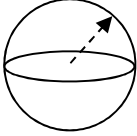
Area Formulas

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	$\frac{1}{2} d_1 d_2$	
Trapezoid	$\frac{(b_1 + b_2)}{2} h$	
Regular Polygon		
If you know the side length, divide it into triangles.	$n (\frac{1}{2} s a)$	
If you know the radius	$n r^2 \sin(\frac{180}{n}) \cos(\frac{180}{n})$	
If you know the apothem	$na^2 \tan(\frac{180}{n})$	
Circle	$r^2\pi$	
Sector	$(\frac{Angle}{360}) r^2\pi$	

VOLUME Formulas

Shape	Formula	
Right Prism	Area of Base x Height	
Right Cylinder	Area of Base x Height	
Pyramid	1/3 Area of Base x Height	
Cone	1/3 Area of Base x Height	
Sphere	$\frac{4\pi}{3}$ Radius ³	

Similar Figures

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

$$\text{Big Perimeter} = \text{Ratio}(\text{Small Perimeter})$$

$$\text{Big Area} = \text{Ratio}^2(\text{Small Area})$$

$$\text{Big Volume} = \text{Ratio}^3(\text{Small Volume})$$