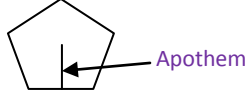














Description	Formula	Notes						
Sum of all <b>interior angles</b> of a convex polygon	$(n - 2)180^\circ$	$n = \#$ of sides						
Measure of a single <b>interior angle</b> of a regular polygon	$\frac{(n - 2)180^\circ}{n}$	$n = \#$ of sides						
Sum all of <b>exterior angles</b> of a convex polygon	$360^\circ$							
Measure of a single <b>exterior angle</b> of a regular polygon	$\frac{360^\circ}{n}$	$n = \#$ of sides						
Area of a <b>triangle</b>	$\frac{1}{2} \cdot b \cdot h$	$b = \text{base}; h = \text{height}$						
Area of an <b>equilateral triangle</b>	$\frac{1}{4} \cdot \sqrt{3} \cdot s^2$	$s = \text{length of 1 side}$						
Area of a <b>parallelogram</b> or <b>rectangle</b>	$b \cdot h$	$b = \text{base}; h = \text{height}$						
Area of a <b>square</b>	$s^2$	$s = \text{length of 1 side}$						
Area of a <b>trapezoid</b>	$\frac{1}{2} \cdot (b_1 + b_2) \cdot h$	$b_1 = \text{base 1}; b_2 = \text{base 2}; h = \text{height}$						
Area of a <b>kite</b> or <b>rhombus</b>	$\frac{1}{2} \cdot d_1 \cdot d_2$	$d_1 = \text{diagonal 1}; d_2 = \text{diagonal 2}$						
Area of a <b>regular polygon</b> 	$\frac{1}{2} \cdot a \cdot P$	$a = \text{apothem (height of a } \Delta)$ $P = n \cdot s$ $n = \#$ of sides $s = \text{length of 1 side}$						
If the ratio of the <b>perimeters</b> of similar figures is written as $\frac{a}{b}$ , the ratios of the <b>areas</b> are $\frac{a^2}{b^2}$ and <b>volumes</b> are $\frac{a^3}{b^3}$ .	<table border="1" data-bbox="803 781 966 877"> <tr> <td>P</td> <td>A</td> <td>V</td> </tr> <tr> <td><math>\frac{a}{b}</math></td> <td><math>\frac{a^2}{b^2}</math></td> <td><math>\frac{a^3}{b^3}</math></td> </tr> </table>	P	A	V	$\frac{a}{b}$	$\frac{a^2}{b^2}$	$\frac{a^3}{b^3}$	$\frac{a}{b}$ should be in reduced form; Set up a proportion to solve for actual perimeters, areas & volumes
P	A	V						
$\frac{a}{b}$	$\frac{a^2}{b^2}$	$\frac{a^3}{b^3}$						
<b>Circumference</b> of a circle	$2\pi r$ (or $\pi d$ )	$r = \text{radius}; d = \text{diameter}$						
<b>Area</b> of a circle	$\pi r^2$	$r = \text{radius}$						
<b>Arc length</b> of an arc $\widehat{AB}$ in a circle 	$\frac{m\widehat{AB}}{360^\circ} \cdot 2\pi r$	$m\widehat{AB} = \text{degree measure of arc AB}$ $r = \text{radius}$ The answer is not in degrees						
<b>Area</b> of a <b>sector</b> of a circle 	$\frac{m\widehat{AB}}{360^\circ} \cdot \pi r^2$	$m\widehat{AB} = \text{degree measure of arc AB}$ $r = \text{radius}$ The answer is not in degrees						
Surface Area of a <b>rectangular prism</b> (box) 	Sum of face areas	Add up the areas of all 6 faces						
Surface Area of other <b>prisms</b> 	$2 \cdot B + P \cdot h$	$B = \text{AREA of the base}$ $P = \text{PERIMETER of the base}$ $h = \text{height of prism}$						
Surface Area of a <b>cylinder</b> 	$2 \cdot \pi \cdot r^2 + 2 \cdot \pi \cdot r \cdot h$	$r = \text{radius}$ $h = \text{height}$						
Surface Area of a <b>pyramid</b> 	$B + \frac{1}{2} \cdot P \cdot l$	$B = \text{AREA of the base}$ $P = \text{PERIMETER of the base}$ $l = \text{slant height of prism}$						
Surface Area of a <b>cone</b> 	$\pi \cdot r^2 + \pi \cdot r \cdot l$	$r = \text{radius}$ $l = \text{slant height}$						
Surface Area of a <b>sphere</b>	$4 \cdot \pi \cdot r^2$	$r = \text{radius}$						
Volume of a <b>cube</b>	$s^3$	$s = \text{length of 1 side}$						
Volume of a <b>rectangular prism</b> (box) 	$L \cdot W \cdot H$	$L = \text{length}, W = \text{width}, H = \text{height}$						
Volume of other <b>prisms</b> 	$B \cdot h$	$B = \text{AREA of the base}$ $h = \text{height of prism}$						
Volume of a <b>cylinder</b> 	$\pi \cdot r^2 \cdot h$	$r = \text{radius}$ $h = \text{slant height}$						
Volume of a <b>pyramid</b> 	$\frac{1}{3} \cdot B \cdot h$	$B = \text{AREA of the base}$ $h = \text{height of prism}$						
Volume of a <b>cone</b> 	$\frac{1}{3} \cdot \pi \cdot r^2 \cdot h$	$r = \text{radius}$ $h = \text{slant height}$						
Volume of a <b>sphere</b>	$\frac{4}{3} \cdot \pi \cdot r^3$	$r = \text{radius}$						

Perimeter, Area, Surface Area, Volume & Angle Measures of 3-D & 2-D Figures