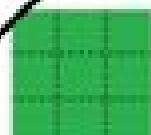


AREA & VOLUME FORMULAS



PERIMETER



AREA

The amount of space inside a shape

YOU GOTTA KNOW THE BASE-ICS

Polygons	Shapes	Formulas
Triangle		Area (A) = $\frac{1}{2}(b \times h)$ Note: b = base, h = height
Rectangle		Area (A) = $w \times l$ Note: w = width, l = length
Square		Area (A) = s^2 Note: s = side
Parallelogram		Area (A) = $b \times h$ Note: b = base, h = height
Rhombus		Area (A) = $\frac{d_1 \times d_2}{2}$ Note: d1 and d2 are the diagonals
Trapezoid		Area (A) = $\frac{1}{2}(a + b) \times h$ Note: a = long base, b = short base, h = height
Pentagon		Area (A) = $\frac{1}{2}(p \times a)$ Note: p = perimeter, a = apothem
Hexagon		Area (A) = $\frac{3\sqrt{3}}{2} \times (s^2)$ Note: s = side

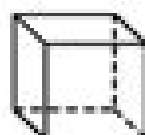
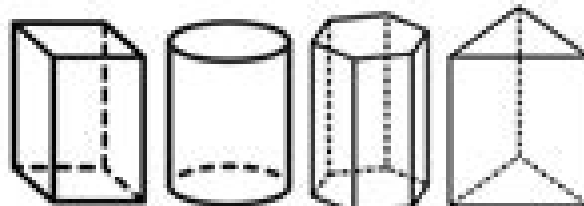
Circle (not a polygon)



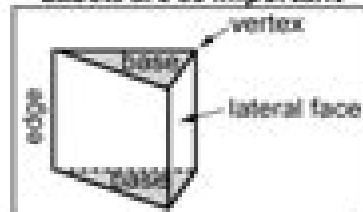
Note: r = radius

Prisms/Cylinders

$$V_{Prism} = (A_{Base} \cdot h)$$

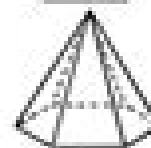
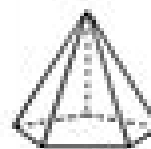


Labels are so important



Pyramids/Cones

$$V_{Pyramid} = \frac{1}{3} (A_{Base} \cdot h)$$



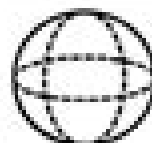
Why the Fraction?

Cone inside a Cylinder



Spheres

$$V_{Sphere} = \frac{4}{3} (A_{Circle} \cdot r)$$



When you insert the formula for the area of a circle, it generates this other formula



$$V = \frac{4}{3} \pi r^3$$

Hemisphere

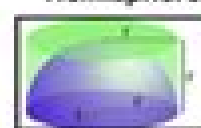


$$V = \frac{2}{3} \pi r^3$$

To figure out the volume for HALF a Sphere, you can divide by two... or use this cute formula

Why the fraction?

Hemisphere inside a Cylinder



$$V_{Cylinder} = (\pi r^2 \cdot h)$$

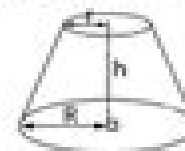
$$V_{Hemisphere} = \frac{2}{3} (\pi r^2 \cdot r)$$

Frustums

Find the Volume for a complete Pyramid/Cone... then subtract the Volume of the part you cut off.



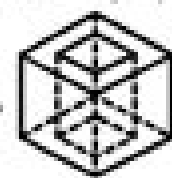
There are shortcut formulas for Frustums... in case you get frustrated.



$$V_{Frustum} = \frac{h}{3} (a^2 + (a \cdot b) + b^2)$$

$$V_{Frustum} = \frac{1}{3} (A_{bottom base} + \sqrt{A_{bottom} \cdot A_{top}} + A_{top base})$$

There will be other times when you'll need to find the Volume of a Larger shape and then subtract the volume of a smaller shape.



Areas And Volumes Of Shapes

Thomas Griffiths



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