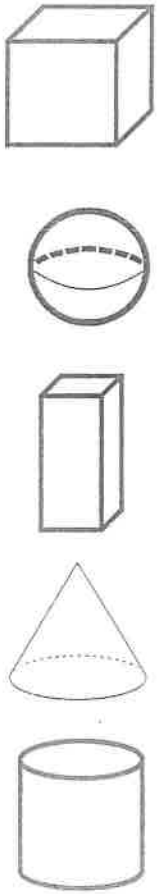
Counting Up 3D Shape Attributes



3D Shape Name	Faces	Edges	Vertices	Curved Surfaces

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3D Shape Name	Faces	Edges	Vertices	Curved Surfaces

Area of Circle

Circumference of Circle

Volume of Rectangular Prism

Area of Triangle

Perimeter

Area of a shaded region

$A =$

(One half base times height)

P = S.O.S.

(Sum of all sides)

For irregular shapes, make sure you add all of the OUTER sides together. The outside of a circle is circumference!

Key Words: Fence, outside, enclose

Big – Small

(Area of Big Shape – Area of Small Shape)

For a semicircle:

divide the formula by 2.

$$\frac{A=\pi r^2}{2}$$

For a quarter circle:

divide the formula by 4.

$$\frac{A=\pi r^2}{4}$$

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$$\frac{A=\pi \mathrm{d}}{2}$$

For a quarter circle:

divide the formula by 4.

$$\frac{A=\pi \mathrm{d}}{4}$$

$A =$

(Pi times radius squared)

Use π button in calculator

Radius is one half of the diameter

$C =$

(Pi times diameter)

Use π button in calculator

Diameter is two times the radius

$V = lwh$

(Length times width times height)

For a cube, $V = s^3$ since all of the sides in a cube are equal in length