

Calculating Area & Volume

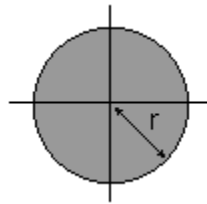
CIRCLE

Area = Square of Diameter x 0.7854
OR Square of Radius x 3.1416

Circumference = Diameter x 3.1416

Diameter = Circumference x 0.3183

Doubling diameter increases area four times. Tripling diameter increases area nine times, etc.



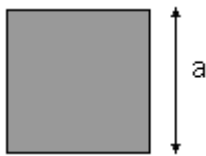
Circle = πr^2 or $0.7854d^2$

SQUARE

Area = Square of Side

Diagonal = Side x 1.4142

Side = Diagonal x 0.7071



Square = side squared = a^2

SQUARE INSCRIBED IN CIRCLE

Side of Square = Diameter of Circle x 0.7071
OR Circumference of Circle x 0.2251

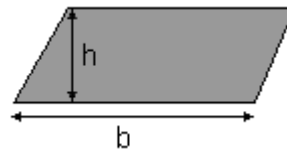
Diameter of Circle = Side of Square x 1.4142

Side = Diagonal x 0.7071

RECTANGLE

Area = Length x Width

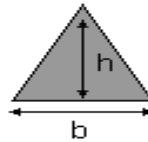
Diagonal = Square Root of the Sum of Squares of Width and Length



Parallelogram & Rectangle = Height x base = $h \times b$

TRIANGLE

Area = Base x 1/2 of Perpendicular Height



Triangle = 1/2 base x height = $1/2 b \times h$

CUBE

Area of Surface = Square of Side x 6

Volume = Cube of Side

Diagonal = Side x 1.732

PYRAMID

Lateral Surface Area = Perimeter of Base x 1/2 Slant Height
(Does not include base)

Volume = Area of Base x 1/3 Perpendicular Height

HEXAGON (equal sides and angles)

Area = Square of Distance Across Flats x 0.866
OR Square of Side x 2.598

Side = 1/2 of Diagonal x 3.1416
OR Distance Across Flats x 0.577

Diagonal = Distance Across Flats x 1.155
OR Side x 2

OCTAGON (equal sides and angles)

Area = Square of Distance Across Flats x 0.828
OR Square of Side x 4.828

Side = Diagonal x 0.383
OR Distance Across Flats x 0.414

Diagonal = Distance Across Flats x 1.082
OR Side x 2.613

SPHERE

Area of Surface = Square of Diameter x 3.1416

Volume = Cube of Diameter x 0.5236

CYLINDER

Area of Curved Surface = Diameter x Length x 3.1416

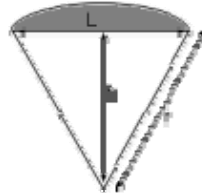
Volume = Square of Diameter x Length x 0.7854

CONE

Area of Curved Surface = Diameter of Base x Slant Height x 1.5708

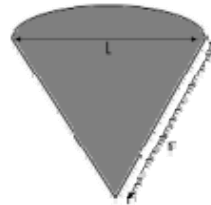
Volume = Diameter of Base Squared x Perpendicular Height x 0.2618
OR Area of Base x 1/3 Perpendicular Height

SEGMENT OF A CIRCLE



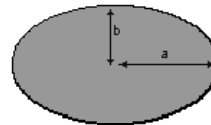
Segment of Circle = Area of Sector - area of triangle = $(r - h)/2$

SECTOR OF A CIRCLE



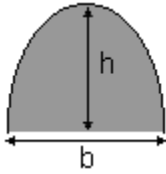
Sector of Circle = Length of arc x 1/2 radius = $L \times r/2$

ELLIPSE



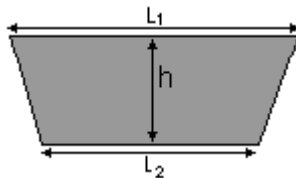
Ellipse = π x long axis x short axis = π x a x b

PARABOLA



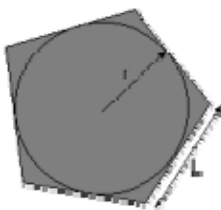
$$\text{Parabola} = \frac{2}{3} \text{ base} \times \text{height} = \frac{2}{3} b \times h$$

TRAPEZIUM



$$\text{Trapezium} = \frac{1}{2} \text{ height} \times \text{sum of parallel sides} \\ = \frac{1}{2} h \times (L1 + L2)$$

POLYGON



Polygon

(Regular) = $\frac{1}{2}$ rad. of inscribed circle x side x No. of sides.

(Irregular) = Divide into triangles, find area of each and add. = $\frac{1}{2} \times L \times N$

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