List of formulas in elementary geometry

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This is a short list of some common mathematical shapes and figures and the formulas that describe them.

Contents [hide]

Two-dimensional shapes [edit]

Shape	Area	Perimeter/Circumference
Square	A = side^2	P = 4 x side
Rectangle (l = length, w = width)	A = l × w	P = 2l + 2w
Circle	A = π × r^2	C = 2 × π × r

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Ellipse (where a is the semimajor axis and b is the semiminor axis)	A = π × a × b	
Triangle (b = base, h = height, a,b,c = sides)	A = ½ × b × h	P = a + b + c
Parallelogram (b = base, h = height, a = side)	A = b × h	P = 2a + 2b
Trapezoid (where a and b are the bases)	A = ½(a + b) × h	

Sources:[1][2]

RHOMBUS || 1/2D1*D2

Three-dimensional shapes [edit]

Shape	Volume	Surface area
Cube	$V = s^3$	$6s^2$
Rectangular Prism l = length, h = height, w = width	V = l × w × h	S = 2lw + 2l*h* + 2*wh*
Sphere	V = $(4/3)$ π r^3	4π r^2
Right Circular Cylinder	V = π × r^2 × h	S = 2π rh + 2π r^2

Sources:[3]

LaTeX markup (for writer/editors) [edit]

Circle (area and circumference) [edit]

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$$C = 2\pi r$$

$$A = \pi r^2$$

$$dA = \mathrm{d}r\, r\, \mathrm{d}\theta$$

Sphere (area and volume) [edit]

$$A = 4\pi r^2$$

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

$$dA = r^2 \sin\theta\, d\theta\, d\phi$$

$$\mathrm{d}V = r^2 \sin\theta\, \mathrm{d}r\, \mathrm{d}\theta\, \mathrm{d}\varphi$$

References [edit]

1. ^ http://www.austincc.edu/tutor/students/resources/Geometry.pdf
2. ^ http://www.math.com/tables/geometry/areas.htm
3. ^ http://www.math.com/tables/geometry/volumes.htm

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