

Geometric Formulas

Perimeter

Rectangle:	$P = 2L + 2W$
Square:	$P = 4s$
Triangle:	$P = a + b + c$

Circumference of a circle:	$P = \pi d$	or	$P = 2\pi r$
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Area

Circle:	$A = \pi r^2$
Parallelogram:	$A = bh$
Rectangle:	$A = LW$
Square:	$A = s^2$
Trapezoid:	$A = \frac{1}{2}h(b_1 + b_2)$
Triangle:	$A = \frac{1}{2}bh$

Volume

Cube:	$V = s^3$
Rectangular solid:	$V = LWH$
Regular square pyramid:	$V = \frac{1}{3}s^2h$
Right circular cylinder:	$V = \pi r^2h$
Right circular cone:	$V = \frac{1}{3}\pi r^2h$
Sphere:	$V = \frac{4}{3}\pi r^3$

Surface Area

Cube:	$SA = 6s^2$
Rectangular Solid:	$SA = 2LW + 2LH + 2WH$
Regular pyramid:	$SA = s^2 + 2sl$
Right circular cone:	$SA = \pi r^2 + \pi rl$
Right circular cylinder:	$SA = 2\pi r^2 + 2\pi rh$
Sphere:	$SA = 4\pi r^2$

Pythagorean Theorem:	$a^2 + b^2 = c^2$
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Angles of a Triangle:	$\angle a + \angle b + \angle c = 180^\circ$
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Complementary angles are two angles whose measurements have the sum of 90° .

Supplementary angles are two angles whose measurements have the sum of 180° .

Scalene triangles have **no** side of equal length.

Isosceles triangles have **two** sides of equal length.

Equilateral triangles have **three** sides of equal length.