

Geometry means Earth measurement.

Early people used geometry to build roads, temples, pyramids, and irrigation systems. Formal study of geometry today is based on an interest in logical reasoning and relationships rather than in measurement alone.

Euclid (500 B.C.) organized Greek geometry into a 13-volume set of books

named *The Elements*, in which the geometric relationships were derived through deductive reasoning. Thus, today's geometry is often called *Euclidean Geometry*, also known as *plane geometry* because the relationships deal with flat surfaces.

Geometric Formulas

P = perimeter
w = width

A = area
r = radius

V = volume
d = diameter

S.A. = surface area
C = circumference

b = base
s = side length

h = height
Use $\pi = 3.14$ or $\frac{22}{7}$ **l** = length

Two-Dimensional

Perimeter:

The perimeter (**P**) of a two-dimensional shape is the sum of all side lengths (**s**).

Area:

The area (**A**) of a two-dimensional shape is the number of square units that can be put in the region enclosed by the sides.

Note: Area is obtained through multiplying a combination of dimensions which always form 90° angles with each other, except in circles.

Square

Perimeter: $P = 4s$

or $P = s + s + s + s$

EX: If $s = 8$, then $P = 4 \times 8$, or 32 units.

Area: $A = s^2$

EX: If $s = 8$, then $A = 8^2$ or $A = 8 \times 8$ or 64 square units.



Rectangle

Perimeter: $P = 2(l + w)$

or $P = 2l + 2w$; or $P = l + w + l + w$

EX: If $l = 4$ and $w = 12$,

then $P = (2 \times 4) + (2 \times 12) = 8 + 24$, or 32 units.

Area: $A = lw$

EX: If $l = 4$ and $w = 12$, then $A = 4 \times 12$, or 48 square units.



Triangle

Perimeter: $P = a + b + c$

EX: If $a = 5$, $b = 12$, and $c = 7$, then $P = 5 + 12 + 7$,

or 24 units.

Area: $A = \frac{1}{2}bh$

EX: If $b = 12$ and $h = 4$, then $A = \frac{1}{2} \times 12 \times 4$, or 24 square units.



Parallelogram

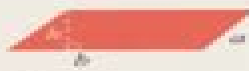
Perimeter: $P = 2(a + b)$

EX: If $a = 8$ and $b = 12$, then $P = (2 \times 8) + (2 \times 12) =$

16 + 24, or 40 units.

Area: $A = bh$

EX: If $b = 9$ and $h = 6$, then $A = 9 \times 6$, or 54 square units.



Trapezoid

Perimeter: $P = a + b_1 + b_2 + c$

EX: If $a = 3$, $b_1 = 8$, $b_2 = 12$, $c = 4$ and then $P = 3 + 8 + 12 + 4$, or 27 units.

Area: $A = \frac{1}{2}h(b_1 + b_2)$

EX: If $h = 4$, $b_1 = 8$ and $b_2 = 12$, then

$A = \frac{1}{2}(4)(8 + 12) = \frac{1}{2}(4)(20)$, or 40 square units.



Circle

Circumference: $C = 2\pi r$ or $C = \pi d$

EX: If $r = 5$, then $C = (2)(3.14)(5)$, or 31.4 units.

Area: $A = \pi r^2$

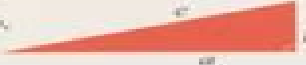
EX: If $r = 5$, then $A = (3.14)(5^2) = 3.14 \times 25$,

or 78.5 square units.



Pythagorean Theorem

If a right triangle has hypotenuse c and sides a and b , then $c^2 = a^2 + b^2$



Three-Dimensional

Volume:

The volume (**V**) of a three-dimensional shape is the number of cubic units that can be put in the space enclosed by all the sides.

Surface area:

The surface area (**S.A.**) of a three-dimensional shape is the total area of all of its surfaces, measured in square units.

Cube (with side lengths **s**)

Volume: $V = s^3$

EX: If $s = 8$, then $V = 8^3 = 512$ cubic units.

Surface Area: $S.A. = 6s^2$

EX: If $s = 8$, then $S.A. = 6(8)^2 = 6 \times 64$, or 384 square units.



Rectangular Prism

Volume: $V = lwh$

EX: If $l = 12$, $w = 3$ and $h = 4$, then $V = (12)(3)(4)$, or 144 cubic units.

Surface area: $S.A. = 2lw + 2wh + 2lh$

EX: If $l = 12$, $w = 3$ and $h = 4$, then $S.A. = 2(12)(3) + 2(12)(4) + 2(3)(4) = 72 + 96 + 24$, or 192 square units.



Cylinder

Volume: $V = \pi r^2 h$

EX: If $r = 9$ and $h = 8$, then $V = \pi(9^2)(8) = 3.14(81)(8)$, or 2034.72 cubic units.

Surface Area: $S.A. = 2\pi r^2 + 2\pi rh$

EX: If $r = 9$ and $h = 8$, then $S.A. = 2(3.14)(9^2) + 2(3.14)(9)(8) = 950.84$ square units.



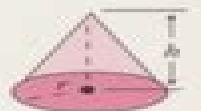
Cone

Volume: $V = \frac{1}{3}\pi r^2 h$

EX: If $r = 6$ and $h = 8$, then $V = \frac{1}{3}(3.14)(6^2)(8)$, or 301.44 cubic units.

Surface Area: $S.A. = \pi r\sqrt{r^2 + h^2} + \pi r^2$

EX: If $r = 6$ and $h = 8$, then $S.A. = (3.14)(6)\sqrt{36 + 64} + (3.14)(36)$, or 301.44 square units.



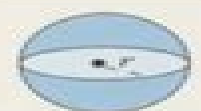
Sphere

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

EX: If $r = 5$, then $V = \frac{4}{3}(3.14)(5^3)$, or 523.33 cubic units.

Surface Area: $S.A. = 4\pi r^2$

EX: If $r = 5$, then $S.A. = (3.14)(5^2)$, or 314 square units.

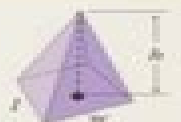


Pyramid

Volume: $V = \frac{1}{3}Bh$, where B = area of the base.

EX: If $h = 9$, $l = 5$, $w = 4$, and $B = lw$, then $B = (5)(4) = 20$

and $V = \frac{1}{3}Bh = \frac{1}{3}(20)(9) = 60$ cubic units.



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