QuickStudy ACADEMIC

Geometry PART 1

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 (300 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	A = area	V = volume	S.A. = surface area	b = base	h = height	l = length
w = width	r = radius	d = diameter	C = circumference	s = side length	Use $\pi = 3.14$ or $\frac{22}{7}$	

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 $V = (12)(3)(94)$, or 144 cubic units.
Surface area: $S.A. = 2lw + 2lh + 2wh$
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: $S.A. = 2\pi r^2 + 2\pi r h$
EX: If $r = 9$ and $h = 8$, then $S.A. = 2(3.14)(9)^2 + 2(3.14)(9)(8)$ = 960.84 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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