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WORLD'S #1 QUICK REFERENCE GUIDE
Quick Study 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

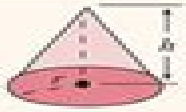
Volume: $V = \pi r^2 h$
EX: If $r = 9$ and $h = 8$, then $V = \pi(9)^2(8) = 3.14(81)(8)$,
or 2034.72 cubic units.

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

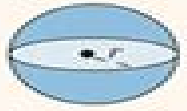
Surface Area: $S.A. = \pi r\sqrt{r^2 + h^2} + \pi r^2$
EX: If $r = 6$ and $h = 8$, then $S.A. = (3.14)(6)\sqrt{36 + 64} + (3.14)(36)$,
or 301.44 square units.



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.

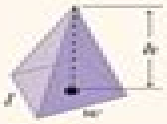


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Table of Contents Geometry Study Guides

1. Understanding the eBook Geometry Study Guides
    - The Rise of Digital Reading Geometry Study Guides
    - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Study Guides
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Geometry Study Guides
    - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Study Guides
    - Personalized Recommendations
    - Geometry Study Guides User Reviews and Ratings
    - Geometry Study Guides and Bestseller Lists
5. Accessing Geometry Study Guides Free and Paid eBooks

- Geometry Study Guides Public Domain eBooks
- Geometry Study Guides eBook Subscription Services
- Geometry Study Guides Budget-Friendly Options

6. Navigating Geometry Study Guides eBook Formats
   - ePub, PDF, MOBI, and More
   - Geometry Study Guides Compatibility with Devices
   - Geometry Study Guides Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Geometry Study Guides
   - Highlighting and Note-Taking Geometry Study Guides
   - Interactive Elements Geometry Study Guides
8. Staying Engaged with Geometry Study Guides
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Geometry Study Guides
9. Balancing eBooks and Physical Books Geometry Study Guides
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Geometry Study Guides
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Geometry Study Guides
    - Setting Reading Goals Geometry Study Guides
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometry Study Guides
    - Fact-Checking eBook Content of Geometry Study Guides
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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