

GEOMETRY - Part 1

segments, lines, planes, geometric formulas

GEOMETRY HISTORY

Geometry means earth measurement. Early people used their basic knowledge of geometry to build roads, bridges, pyramids, and irrigation systems. The more formal study of geometry today is based on an interest in logical reasoning and mathematics rather than measurement alone. Euclid (c.300 B.C.) organized Greek geometry into a logical system out of books named **The Elements**, in which the geometric relationships were derived through deductive reasoning. Thus, the formal geometry studied today is often called **Euclidean geometry**. This geometry is also called **plane geometry** because the relationships deal with flat surfaces. Geometry has useful real terms, related terms, possible connections that have not been proved, but have "worked" for thousands of years, and theoretical relationships that have been mathematically and logically proven.

GEOMETRIC FORMULAS

Perimeter: The perimeter, P , of a two-dimensional shape is the sum of all side lengths. Area: The area, A , of a two-dimensional shape is the number of square units that can be put in the shape enclosed by the sides. **Area:** Area is obtained through some combination of multiplying lengths and bases, adding halves, times 20° angles and so forth, except in circles. **Volume:** The volume, V , of a three-dimensional object is the number of cubic units that can be put in the object enclosed by all the sides.

Square Area:
 An $n \times n$ square has n^2 unit squares. Area: n^2 square units.



Rectangle Area:
 An $n \times m$ rectangle has $n \times m$ unit squares. Area: $n \times m$ square units.



Triangle Area:
 An $n \times m$ triangle has $n \times m / 2$ unit squares. Area: $n \times m / 2$ square units.



Parallelogram Area:
 An $n \times m$ parallelogram has $n \times m$ unit squares. Area: $n \times m$ square units.



Trapezoid Area:
 An n_1 by n_2 by m_1 by m_2 trapezoid has $(n_1 + n_2) \times (m_1 + m_2) / 2$ unit squares. Area: $(n_1 + n_2) \times (m_1 + m_2) / 2$ square units.



Circle Area:
 An r circle has πr^2 unit squares. Area: πr^2 square units.
 Circumference: $C = 2\pi r$. $C = 2\pi r$ unit squares.



Pythagorean Theorem:
 If a right triangle has legs a and b , and hypotenuse c , then $a^2 + b^2 = c^2$.



Rectangular Prism Volume:
 A rectangular prism with length n , width m , and height h has $n \times m \times h$ unit cubes. Volume: $n \times m \times h$ cubic units.



Cube Volume:
 A cube with side length n has n^3 unit cubes. Volume: n^3 cubic units.



Cylinder Volume:
 A cylinder with radius r and height h has $\pi r^2 h$ unit cubes. Volume: $\pi r^2 h$ cubic units.



Cone Volume:
 A cone with radius r and height h has $\pi r^2 h / 3$ unit cubes. Volume: $\pi r^2 h / 3$ cubic units.



Triangular Prism Volume:
 A triangular prism with base n and height h has $n \times h / 2$ unit cubes. Volume: $n \times h / 2$ cubic units.



Rectangular Pyramid Volume:
 A rectangular pyramid with base n and height h has $n \times h / 3$ unit cubes. Volume: $n \times h / 3$ cubic units.



Sphere Volume:
 A sphere with radius r has $4/3 \pi r^3$ unit cubes. Volume: $4/3 \pi r^3$ cubic units.



DESCRIPTIONS OF UNDEFINED TERMS

Point

- A point may be described as a location with no length, no width, and no depth.
- A point is a letter named with a capital letter. It is usually located by writing a dot above the name of a point, although the points cannot really be dots because they have no dimensions. (See Examples 1, 2, and 3 on page 21.)

Line

- A line may be described as a set of points going straight on forever in two opposite directions. Lines are straight and uncurved. There is no end to a line or the phrase "straight line" because lines are straight. If something is not straight it cannot be a line. Lines are always curveless. Lines have length, but no width and no depth. Lines cannot be curvy straight lines back, right, and depth. Experimental lines are drawn to fit points in each end, but they are not the line we mean.
- Lines are usually named by one of two ways. The line containing points K and N may be named by either:
 - Using only the letters K and N above the points. For example, \overleftrightarrow{KN} or \overleftrightarrow{NK} (the order of the letters doesn't matter); the line indicator above the capital letters always points horizontally from left to right and never in any other direction. It is the usual direction of the points in space that determines the location and direction of the real line, not the direction of the line indicator above the capital letters on the diagram.
 - By using the letters l and m with a number subscript. For example, l_1 or l_2 .



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C: Lines in Euclidean geometry, points and the geometry of three angles, and geometric properties of lines can be described. See Algebra - Part 2.

Planes

- A plane may be described as a set of points going on forever in all directions except for a direction that causes depth. Imagine the very surface of a perfectly flat piece of paper extending on forever in every direction but having no thickness at all. This could be a structure such that when any two points in this plane are connected by a line, all points on the line are also in the plane. Planes have length and width, but no depth.
- Planes are usually referred to as "plane ABC " or "plane ABC (any 3 points on the plane that are not on the same line)" or "the plane containing ABC (where A, B, C are not on the same line)". Planes can also be named by letters. Planes are usually drawn as parallelograms, either with the arrows indicating that the plane goes on forever or without the arrows even though the plane does go on forever.



Postulates

- Postulates are statements that have been used and accepted for centuries without formal proof. These are postulates.
- A line contains at least 2 points, and any 2 points locate exactly one line.

- A plane contains at least 3 points that are not all on the same line, and any 3 points that are not on the same line locate exactly one plane. Therefore, a line and one point not on the line also locate exactly one plane.



C: Any 3 points locate at least one plane.



- Two points of a line are in a plane, then the line is in the plane, or: If two points are in a plane then the line containing the two points is also in the plane.



- Two planes intersect, then their intersection is a line.



DEFINED TERMS

There are many defined terms of plane geometry. The definitions of these terms will be given by topic, groups throughout the study guide rather than grouped by one big list.

Plane: Postulates for axioms are relationships and statements that have worked for centuries and are accepted as true. Relationships and statements that have been proved mathematically. Postulates and axioms are given throughout this guide. They also are stated under the various topics of geometry. Sometimes they are called axioms, postulates, or theorems, and sometimes they are simply stated and not labeled.

Space

Space is the set of all points. Space goes on forever in every direction, with infinite length, width, and depth. Space has no special direction. It is simply defined as space. Space contains at least 4 points that are not all on the same plane.

General Terms

- Two adjacent shapes on the same edge of a polygon are adjacent. After some movement of the shapes they can be made to fit exactly on top of each other.
- Two corresponding parts of adjacent polygons are adjacent. That is, one of the polygons has one side moved around to match up perfectly, then the parts that match correspondingly are adjacent.

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Children's Software Review



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