

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 basic notions. **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, defined terms, postulates (statements that have not been proved, but have "worked" for thousands of years), and theorems (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 will work, 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.
 An $n \times n$ square has n^2 square units.



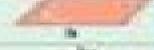
Rectangle Area:
 An $n \times m$ rectangle has $n \times m$ unit squares.
 An $n \times m$ rectangle has $n \times m$ square units.



Triangle Area:
 An $n \times m$ triangle has $\frac{1}{2} n \times m$ unit squares.
 An $n \times m$ triangle has $\frac{1}{2} n \times m$ square units.



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



Trapezoid Area:
 An $n \times m$ trapezoid has $\frac{1}{2} (n + m) \times h$ unit squares.
 An $n \times m$ trapezoid has $\frac{1}{2} (n + m) \times h$ square units.



Circle Area:
 An r circle has πr^2 unit squares.
 An r circle has πr^2 square units.



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



Rectangle Prism Volume:
 A $n \times m \times h$ rectangle prism has $n \times m \times h$ unit cubes.
 A $n \times m \times h$ rectangle prism has $n \times m \times h$ cubic units.



Cube Volume:
 An $n \times n \times n$ cube has n^3 unit cubes.
 An $n \times n \times n$ cube has n^3 cubic units.



Cylinder Volume:
 An $r \times h$ cylinder has $\pi r^2 h$ unit cubes.
 An $r \times h$ cylinder has $\pi r^2 h$ cubic units.



Cone Volume:
 An $r \times h$ cone has $\frac{1}{3} \pi r^2 h$ unit cubes.
 An $r \times h$ cone has $\frac{1}{3} \pi r^2 h$ cubic units.



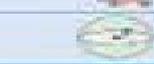
Triangular Prism Volume:
 An $n \times m \times h$ triangular prism has $\frac{1}{2} n \times m \times h$ unit cubes.
 An $n \times m \times h$ triangular prism has $\frac{1}{2} n \times m \times h$ cubic units.



Rectangular Pyramid Volume:
 An $n \times m \times h$ rectangular pyramid has $\frac{1}{3} n \times m \times h$ unit cubes.
 An $n \times m \times h$ rectangular pyramid has $\frac{1}{3} n \times m \times h$ cubic units.



Sphere Volume:
 An r sphere has $\frac{4}{3} \pi r^3$ unit cubes.
 An r sphere has $\frac{4}{3} \pi r^3$ 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 drawn because they have no dimensions. (See Examples 1, 2, and 3 on page 4.)

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. The phrase "straight line" is not necessary because straight is not straight if it curves. Lines are straight, but not with any depth. Lines cannot be drawn because they have no width and depth. Representations of lines are drawn as straight lines with arrows at each end to show that the line has no end.
- Lines are usually named by one or two letters. The line containing points K and N may be named by either:
 - Using only the 1-letter name, then these points on the line with a line indicator 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 with capital letters with a number subscript. For example, ℓ_1 or ℓ_2 .



C: These are elementary geometry; points and the geometry of lines and planes, and geometric properties of lines and the relationships. See Algebra - Part 2.

Planes

- A plane may be described as a set of points going on forever in all directions except for a fixed line that curves depth, meaning 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 flat 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 ℓ " or "plane ABC" (any 3 points on the plane that are not on the same line) or "the plane containing \dots " (whatever points in the diagram). Planes cannot be drawn. Representations of planes are usually drawn as parallelograms, either with the arrows indicating that the plane goes on forever or without the arrows even though the points do 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.



These three points are not contained in one plane.

These three points are in the same line.

- Any 2 points of a line are in a plane, and 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 points, K and N, are in a plane, so the line KN is also in the plane.



Two points, K and N, are in a plane, so the line KN is also in the plane.

- Any 2 planes intersect, and their intersection is a line.



Two planes intersect in a line.

DEFINED TERMS

There are many defined terms of plane geometry. The definitions of these terms will be given by name, group, group, group, the study grade rather than grouped by one big list.

Point: Postulates for axioms are relationships and statements that have worked for centuries and are accepted as true. Mathematics and geometry are relationships and statements that have been proved mathematically. Postulates and axioms are given throughout the book. They also are stated under the various topics of geometry. Sometimes they are defined as postulates or axioms, 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 location. 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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