

# GEOMETRY - Part 1

**Introduction**  
 Geometry is a branch of mathematics that deals with the study of shapes, sizes, positions, and properties of figures. It is one of the oldest and most fundamental branches of mathematics. The word 'Geometry' is derived from the Greek words 'Geo' (Earth) and 'Metron' (Measure). Geometry is used in many fields, including architecture, engineering, art, and science. It helps us understand the world around us and solve various problems. In this chapter, we will explore the basic concepts of geometry, including points, lines, rays, and angles. We will also learn about different types of triangles, quadrilaterals, and circles. The study of geometry is not only interesting but also very useful in our daily lives.

## GEOMETRIC FORMULAS

- Area of a Square:**  $A = s^2$
- Area of a Rectangle:**  $A = l \times b$
- Area of a Triangle:**  $A = \frac{1}{2} \times b \times h$
- Area of a Parallelogram:**  $A = b \times h$
- Area of a Trapezium:**  $A = \frac{1}{2} \times (a + b) \times h$
- Area of a Circle:**  $A = \pi r^2$
- Area of a Sector:**  $A = \frac{\theta}{360} \times \pi r^2$
- Area of a Segment:**  $A = \frac{1}{2} r^2 (\theta - \sin \theta)$
- Area of a Ring:**  $A = \pi (R^2 - r^2)$
- Perimeter of a Square:**  $P = 4s$
- Perimeter of a Rectangle:**  $P = 2(l + b)$
- Perimeter of a Triangle:**  $P = a + b + c$
- Perimeter of a Circle:**  $P = 2\pi r$
- Volume of a Cube:**  $V = s^3$
- Volume of a Rectangular Prism:**  $V = l \times b \times h$
- Volume of a Cylinder:**  $V = \pi r^2 h$
- Volume of a Cone:**  $V = \frac{1}{3} \pi r^2 h$
- Volume of a Sphere:**  $V = \frac{4}{3} \pi r^3$

## DEFINITIONS OF UNDEFINED TERMS

- Point:** A point is a location in space that has no size, shape, or dimension. It is represented by a single dot and labeled with a letter.
- Line:** A line is a straight path that extends infinitely in both directions. It has no thickness and is represented by a straight line with arrows at both ends.
- Ray:** A ray is a part of a line that starts at a fixed point (called the endpoint) and extends infinitely in one direction. It is represented by a line with an arrow at one end and a dot at the other.
- Line Segment:** A line segment is a part of a line that has two fixed endpoints. It is represented by a straight line with dots at both ends.
- Plane:** A plane is a flat, two-dimensional surface that extends infinitely in all directions. It is represented by a flat surface with arrows at the edges.
- Surface:** A surface is a two-dimensional shape that has length and width but no thickness. It is represented by a flat shape.
- Volume:** Volume is the amount of space occupied by a three-dimensional object. It is measured in cubic units.
- Area:** Area is the measure of the size of a two-dimensional shape. It is measured in square units.
- Perimeter:** Perimeter is the total length of the boundary of a two-dimensional shape. It is measured in linear units.
- Angle:** An angle is formed by two rays that share a common endpoint (called the vertex). The size of an angle is measured in degrees.
- Triangle:** A triangle is a three-sided polygon. It is formed by three line segments that meet at three vertices.
- Quadrilateral:** A quadrilateral is a four-sided polygon. It is formed by four line segments that meet at four vertices.
- Pentagon:** A pentagon is a five-sided polygon. It is formed by five line segments that meet at five vertices.
- Hexagon:** A hexagon is a six-sided polygon. It is formed by six line segments that meet at six vertices.
- Circle:** A circle is a closed curve that is equidistant from a fixed point (called the center). It is represented by a circle with a center point and a radius line.

**1. A circle is a closed curve that is equidistant from a fixed point called the center. The distance from the center to any point on the circle is called the radius. The distance across the circle through the center is called the diameter.**



**2. A line is a straight path that extends infinitely in both directions. It has no thickness and is represented by a straight line with arrows at both ends.**

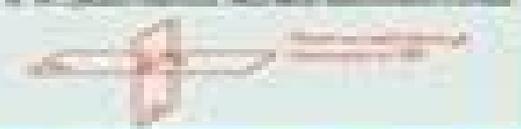


**3. A ray is a part of a line that starts at a fixed point (called the endpoint) and extends infinitely in one direction. It is represented by a line with an arrow at one end and a dot at the other.**

**4. A line segment is a part of a line that has two fixed endpoints. It is represented by a straight line with dots at both ends.**



**5. A plane is a flat, two-dimensional surface that extends infinitely in all directions. It is represented by a flat surface with arrows at the edges.**



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**SA Adler**



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