

# Basic Concepts in Geometry

Chapter 1: Basic Concepts in Geometry · Topic 1

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## Key Concept

A point represents an exact location with no dimension, while a line extends infinitely in both directions with only length.

Collinear points lie on the same straight line, while coplanar points or figures lie within the same flat plane.

The distance between two points can be measured, and the midpoint of a segment divides it into two equal parts.

Understanding these basic concepts is essential for studying angles, triangles, and other geometric shapes and their properties.

## Quick Revision Notes

- Point: exact location, no dimension.
- Line: extends infinitely, has length only.
- Collinear points: on same straight line.
- Coplanar: within the same flat plane.
- Distance between points can be measured.
- Midpoint divides segment into two equal parts.
- These are basic geometry building blocks.
- Essential for angles, triangles, shapes study.

## Practice Questions

- 1 Draw a point, line, and segment.
- 2 Identify collinear points in a diagram.
- 3 Find the midpoint of a segment given its endpoints.
- 4 Discuss the difference between a line and a segment.
- 5 Draw coplanar points on paper.
- 6 Explain these basic concepts in your own words.