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(Affiliated to CBSE Up to +2 Level)

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Basic Concepts with Examples

- **SIMILAR TRIANGLES.** Two triangles are said to be similar if

    (i) Their corresponding angles are equal and

    (ii) Their corresponding sides are proportional.

- All congruent triangles are similar but the similar triangles need not be congruent.

- Two polygons of the same numbers of sides are similar, if

    (i) Their corresponding angles are equal and

    (ii) Their corresponding sides are in the same ratio.

- **BASIC PROPORTIONALITY THEOREM.** In a triangle, a line drawn parallel to one side, to intersect the other sides in distinct points, divides the two sides in the same ratio.

- **CONVERSE OF BASIC PROPORTIONALITY THEOREM.** If a line divides any two sides of a triangle in the same ratio, the line must be parallel to the third side.