anodiam
Education that enlightens!

Practical Geometry

1. A quadrilateral is a four-sided polygon.

2. A quadrilateral has four sides, four angles and two diagonals, i.e., 10 elements. A quadrilateral can be constructed uniquely if at least five of its elements are given.

3. A quadrilateral can be constructed uniquely, if we know any one of the following:
     i.   Four sides and one diagonal
     ii. Four sides and one angle
     iii. Two diagonals and three sides
     iv. Two adjacent sides and three angles
     v.   Three sides and two included angles

4. For the construction of different type of quadrilaterals like parallelogram, rhombus, trapezium etc. we use their properties.