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Student **- Ayushi**



My son loves the sessions and **I can** already see the change. Parent - Sreelatha









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Class 8 Important Formulas

Chapter 3 - Understanding Quadrilaterals

Polygons

A simple closed curve made up of only line segments is called a polygon.

Convex Polygon

We have all the diagonals inside the Polygon

Concave Polygon We don't have all the diagonals inside the Polygon



Regular and Irregular Polygons

A regular polygon is both 'equiangular' and 'equilateral'.

So all the sides and angles should be same

a) So square is a regular polygon but rectangle is not

b) Equilateral triangle is a regular polygon

Angle Sum in the Polygons

The Sum of the angles in the polygon is given by

 $=(n-2) \times 180^{\circ}$

For Triangle, n=3



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So Total =180⁰

For quadrilateral, n=4

So total =360°

Classification of polygons

We classify polygons according to the number of sides (or vertices)

Number of sides	Classification
3	Triangle
4	Quadrilateral
5	Pentagon
6	Hexagon
7	Heptagon
8	Octagon
9	Nonagon

S.no	Terms	Descriptions	
1	Quadrilateral		
		A quadrilateral is a four-sided polyg	on with four angles. rals. The five most







		AB=BC
		AD=CD
6	Rhombus	Rhombus is a parallelogram in which any pair of adjacent sides is equal.
		 Properties of a rhombus: All sides of a rhombus are equal The opposite angles of a rhombus are equal The diagonals of a rhombus bisect each other at right angles.
7	Rectangles	 A parallelogram which has one of its angles a right angle is called a rectangle. Properties of a rectangle are: The opposite sides of a rectangle are equal Each angle of a rectangle is a right-angle. The diagonals of a rectangle are equal. The diagonals of a rectangle bisect each other.
8	Square	A quadrilateral, all of whose sides are equal and all of
		 whose angles are right angles. Properties of square are: All the sides of a square are equal. Each of the angles measures 90°. The diagonals of a square bisect each other at right angles.
		The diagonals of a square are equal.



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