



GOVERNMENT DEGREE COLLEGE - TANDUR
VIKARABAD DIST. TELANGANA STATE
(Affiliated to Osmania University)

STUDENT STUDY PROJECT

Title :- Quadrilateral in Real Life.

Submitted by

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under the supervision of y. Nagayothi. Lecturer
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y. Nagayothi.

Signature of the
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Students Study
Project.

Self Introducing

Study Project By Students

Group Members Names.

Alkari Charan Kumar [2040-18-441
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Year

Achalkar Bharath [2040-18-468
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Year

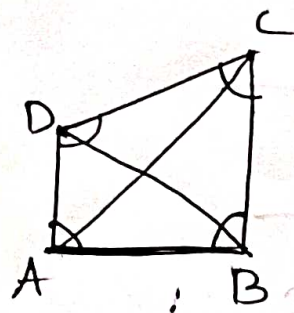
Kurva Raghavender [2040-18-441
-515] Bsc. Final
Year

Quadrilateral

in
Real Life

Properties of Quadrilateral

A polygon has four sides is known as Quadrilateral



Quadrilateral in Real Life

A Quadrilateral is anything with four sides, Even if the sides are unequal.

Ex:- Table Top

Book

Picture Frame

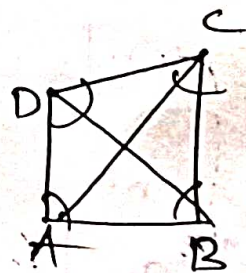
Door

Baseball board

Properties of Quadrilateral

ABCD is a Quadrilateral

A, B, C, D are Vertices of Quadrilateral

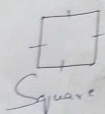


\overline{AB} , \overline{BC} , \overline{CD} , \overline{DA} are sides of the Quadrilateral

$\angle A$, $\angle B$, $\angle C$, $\angle D$ are angles of the Quadrilateral

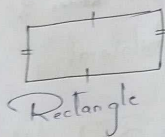
\overline{AC} , \overline{BD} are Diagonals.

Types of Quadrilateral



Square

- All sides are equal
- All Angles are equal



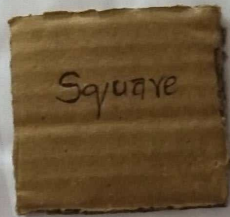
Rectangle

- Opposite sides are equal
- All Angles are equal



Rhombus

- All sides are equal
- Opposite Angles are equal



Square

Square

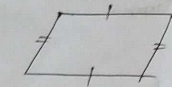
- * All sides are equal
- * It is also one type of Quadrilateral
- * All angles are equal to 90°
- * Diagonals are equal
- * Diagonals are perpendicular bisector of each other.

Ex- Bread shape



Kite

- Adjacent sides are equal
- At least one opposite angle are equal



Parallelogram

- Opposite sides are equal
- Opposite Angles are equal
- Two pair of Parallel lines



Trapezium

- 1 pair of sides are parallel
- Sum of angles parallel to each other is 180°

Rectangle

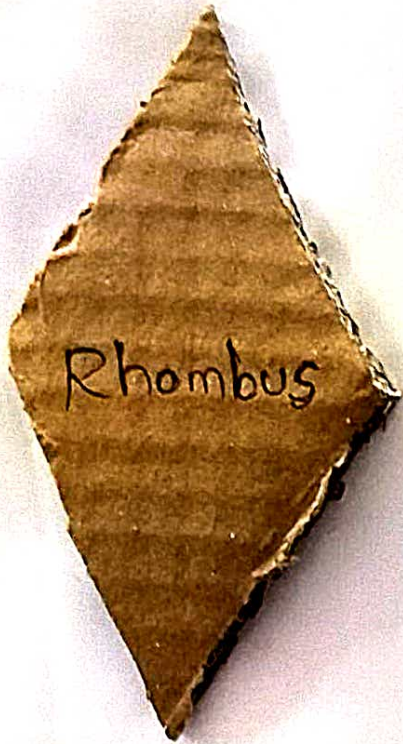
- Opposite sides are equal
- All angles are equal to 90°
- Diagonals are of equal length
- Diagonals are bisectors of each other.

Ex- Book, Table Top.



Rectangle

↳



Rhombus :-

- * All sides are Equal
- * opposite angles are Equal
- * Adjacent angles are Supplementary
- * Diagonal are perpendicular bisectors of each other.

Ex- Kaju Katil Sweet

Kite :-

* pair of adjacent sides are Equal

One pair of opposite angles is Equal

Diagonals are perpendicular to each other

The longer Diagonal bisects shorter diagonal.



LA

5)



Parallelogram :-

- * Opposite sides are equal and parallel
- * opposite angles are equal
- * Adjacent angles are supplementary
- * Diagonal bisect each other.

Ex: - Television.

Trapezium :-

- * One pair of opposite sides is parallel
 - * Sum of adjacent angles on non-parallel sides of Trapezium is 180° .
 - * It is also one type of Quadrilateral.
- Ex: - Lamp.



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