

ACTIVITY 3
TOPIC: UNDERSTANDING QUADRILATERALS
TITLE: ANGLE SUM PROPERTY OF A CONVEX QUADRILATERAL

What we have to do?

To show that the sum of interior angles of a convex quadrilateral is 360° .

What is required?

A coloured sheet of paper, a plain sheet of paper, glue stick, a pair of scissors, a ruler and a pencil/pen.

Time required:

30 minutes

What do you need to know?

Knowledge of a quadrilateral and its interior angles, idea of a complete angle.

How will you proceed?

- ❖ On a coloured sheet of paper, draw a quadrilateral ABCD. Name its angles as 1, 2, 3, 4 and cut it as shown in the figure.



- ❖ Now cut all the four angles.
- ❖ Paste these cutouts on a sheet of paper so that there is no gap between them as shown below



What have you observed?

All angles together form a ____ angle. (straight / obtuse / complete / reflex)

What have you learnt?

Extended learning:

Show the angle sum property for a concave quadrilateral.

Real life application:

Quadrilaterals plays very special role in work of architects as it helps them to design any building by making effective utilization of space.