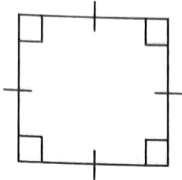
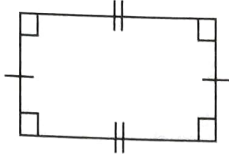
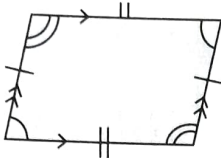
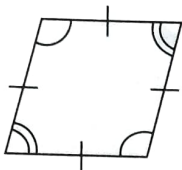
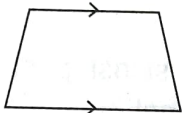




Unit 5 Geometry of 2D shapes – quadrilaterals

We classify quadrilaterals according to their sides, angles and diagonals. This table summarises the different kinds of quadrilaterals and their properties.

Quadrilateral	Shape	Properties
Square		<ul style="list-style-type: none"> All sides are equal in length. All angles equal to 90°.
Rectangle		<ul style="list-style-type: none"> Opposite sides are equal in length. All angles equal to 90°.
Parallelogram		<ul style="list-style-type: none"> Two pairs of opposite sides are equal in length. Two pairs of opposite sides are parallel. Opposite angles are equal.
Rhombus		<ul style="list-style-type: none"> A special kind of parallelogram. All sides are equal in length. Two pairs of opposite sides are parallel. Opposite angles are equal.
Trapezium		<ul style="list-style-type: none"> One pair of opposite sides parallel.
Kite		<ul style="list-style-type: none"> Two pairs of adjacent sides are equal. Opposite angles between the unequal sides are equal.
Irregular quadrilateral		<ul style="list-style-type: none"> Has four straight sides.

Properties of quadrilaterals

The interior angles of any quadrilateral add up to 360° . You can show this by cutting a quadrilateral out of paper, as shown. Tear the angles a , b , c and d off the quadrilateral. Fit the four angles together like a puzzle. The angles of the quadrilateral should fit perfectly together around one point, to make a revolution.

A full revolution is a 360° angle, so this shows that the sum of the four angles of any quadrilateral is 360° .

