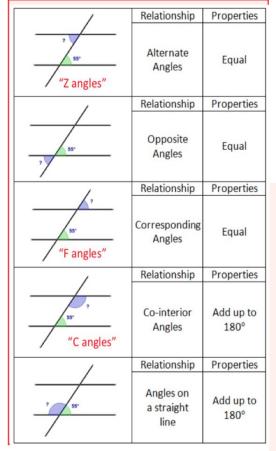
Y7 Maths Block 2 - Angles

Angles in Parallel Lines



A quadrilateral is a 2d shape with 4 sides and 4 angles

A regular polygon has sides that are the same and angles the same - like a square An irregular polygon has sides and angles that may be different from each other

Angles

An angle is a measure of turn You can measure the turn in degrees

° is the symbol for degrees You can describe this angle as angle ABC angle CBA ot angle r

-90°

There are 90° in

a right angle.

This is a $\frac{1}{4}$ turn

Triangles

Equilateral

3 equal angles 3 equal sides

Scalene

No equal angles

No equal sides

180°

There are 180° on

a straight line.

This is half a turn

Isosceles

2 equal angles

2 equal sides

Right-angled

One 90° angle



There are 360°

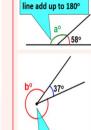
in a full turn at

a point.









angles at a point

add up to 360°

angles on a straight



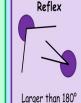
Angles in a quadrilateral

Angle Facts

Acute

Types of Angles

Bigger than 90° but smaller than 180°



Right angle

Smaller than 90°

If two lines are at right angles,



Check your units! Angles are usually measured in degrees, with 360° making a full turn. This is different to degrees Celsius, which measures temperature.

The interior angles of a polygon are the total sum of th angles inside the polygon Interior angles of a quadrilateral = 360°

Quadrilaterals

Square



4 right angles 4 equal sides 2 pairs parallel sides

Rectangle

4 right angles 2 pairs equal sides 2 pairs parallel sides

Parallelogram Rhombus

2 pairs equal angles 2 pairs equal angles 2 pairs equal sides 4 equal sides 2 pairs parallel sides 2 pairs parallel sides

Polygons



A Polygon is a closed 2D shape made of straight lines

poly = many gon = angle Polygon = many angles

Trapezium



1 pair parallel sides

Isosceles trapezium



2 pairs equal angles 1 pair equal sides 1 pair parallel sides



Kite

1 pair equal angles 2 pairs equal sides No parallel sides



Arrowhead

1 pair equal angles 2 pairs equal sides No parallel sides

