

Angles in Parallel Lines and Polygons

Key Vocabulary

Sum—The total of given values

Interior Angle — The angle inside a polygon

Exterior Angle — The angle outside a polygon when you extend the line from the angle

Intersect — Where two lines cross

Parallel — Lines that do not touch if you continue them

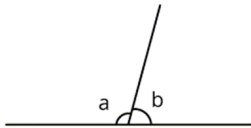
Perpendicular — Lines that would cross at 90° if you continued them

Vertex — A corner

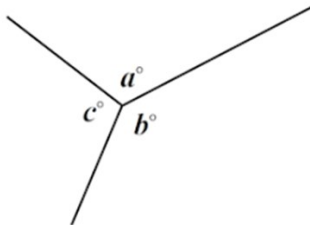
Vertically Opposite Angles — Angles that are opposite each other when two lines intersect each other

Transversal— A line that cuts two lines

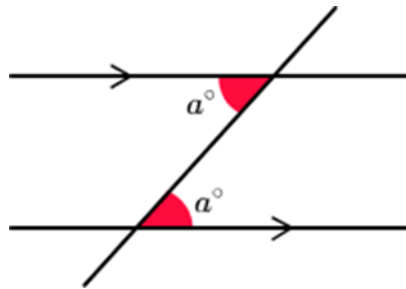
Angles



Angles on a straight line add up to 180°

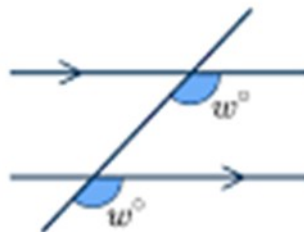


Angles around a point add up to 360°



Alternate

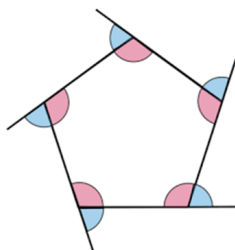
Angles a are equal



Corresponding

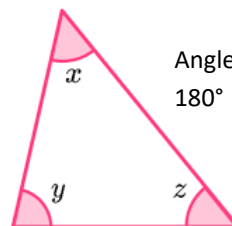
Angles w are equal

Angles in Polygons

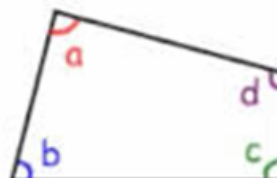


The exterior angles (the blue angles) on any polygon add up to 360°

One exterior and interior angle (a red and blue angle) add up to 180° as they make a straight line



Angles in a triangle add up to 180°



Angles in any quadrilateral add up to 360°