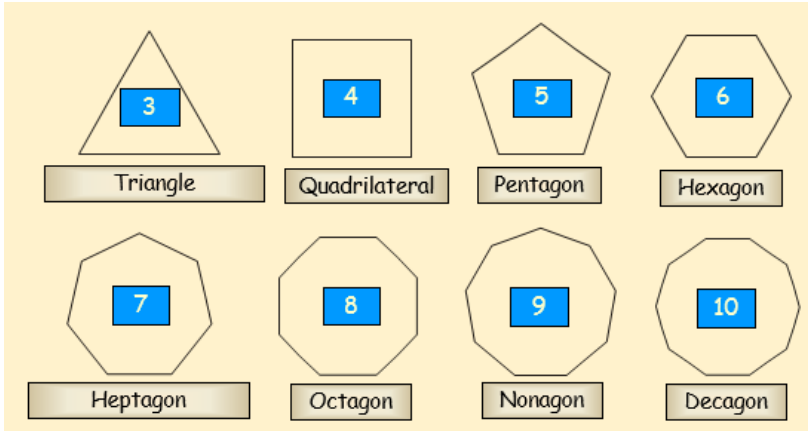
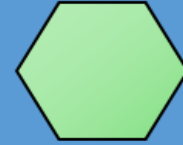




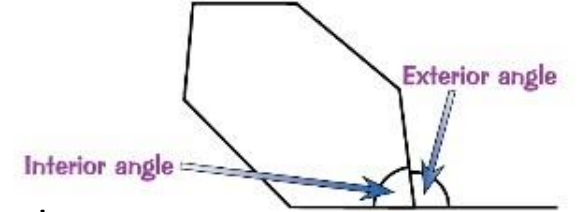
Polygons



A **regular polygon** has equal sides and equal angles.



An **irregular polygon** has unequal sides and unequal angles.



For any polygon:

n = number of sides

$$\text{Sum of interior angles} = (n - 2) \times 180$$

$$\text{Sum of exterior angles} = 360^\circ$$

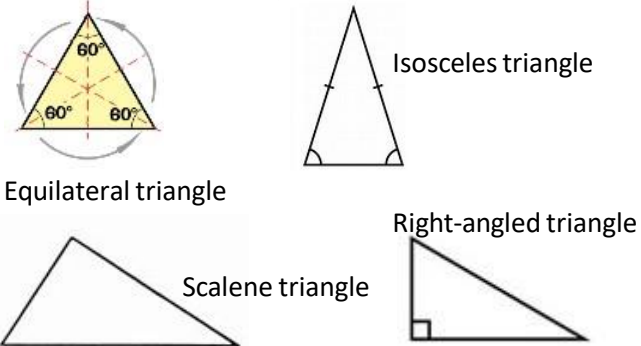
$$\text{INTERIOR ANGLE} = 180^\circ - \text{EXTERIOR ANGLE}$$

For regular polygons only:

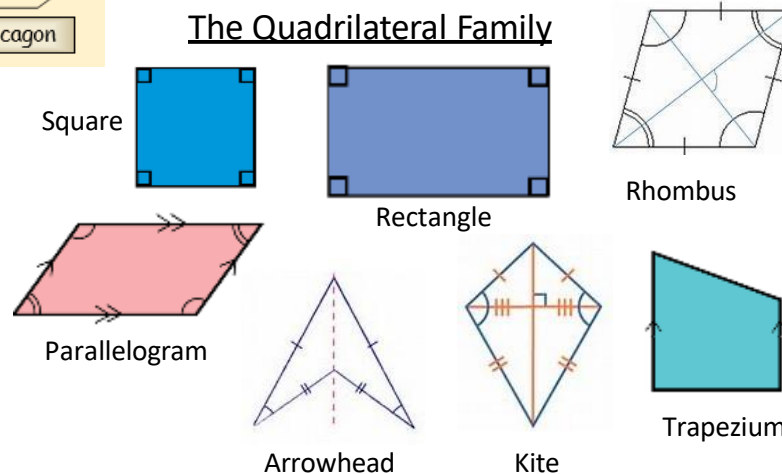
n = number of sides

$$\text{EXTERIOR ANGLE} = \frac{360^\circ}{n}$$

The Triangle Family



The Quadrilateral Family



Linked Prior Topics

Angles on a straight line, vertically opposite angles, angles around a point add up to 360° , angles in a triangle add up to 180° , base angles in an isosceles triangle are equal

Vocabulary

Polygon, interior angle, exterior angle, irregular, regular, equilateral, isosceles, scalene, right-angle, square, rectangle, parallelogram, rhombus, kite, trapezium, arrowhead, vertices

Linked Future Topics

Angles in parallel lines, geometry problems, congruent and similar shapes