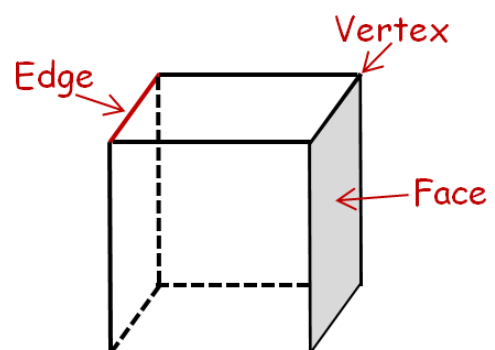


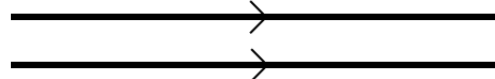
Key Vocabulary

Edge	The side of a polygon or line segment where two faces of a solid figure meet
Face	Flat surface of a 3d shape
Vertex	A point where the edges of a solid figure meets. (A corner)
Plane	A flat, 2 dimensional surface
Parallel	Equidistant – the same distance apart. Never touching
Perpendicular	Two lines meeting at a right angle
Regular polygon	Shapes where all sides and angle are equal.
Rotational Symmetry	A shape has rotational symmetry, if when it is turned around its centre point, it matches it's original outline at least once or more

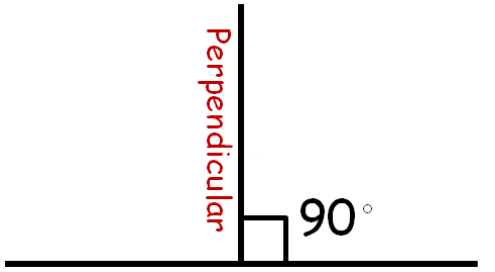
Key facts / Diagrams



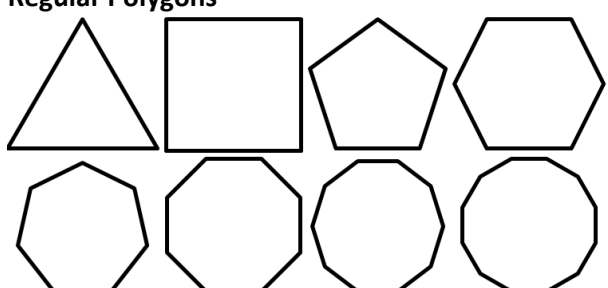
Parallel Lines



Perpendicular





Regular Polygons



Common misconceptions

- Two line segments that do not touch are perpendicular if they would meet at right angles when extended
- Pupils may believe, incorrectly, that:
 - perpendicular lines have to be horizontal / vertical
 - only straight lines can be parallel
 - all triangles have rotational symmetry of order 3
 - all polygons are regular

Worked examples

	NAME	FACES	EDGES	VERTICES
	tetrahedron	4	6	4
	cube	6	12	8

Rotational Symmetry



Order 1 Order 2 Order 3 Order 4