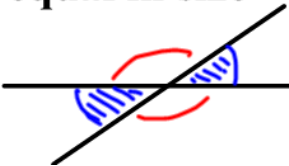


HIGHER TIER Module 4  
Lines, angles and shapes

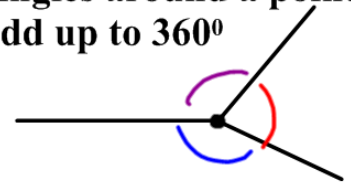
Vertically opposite angles are equal in size



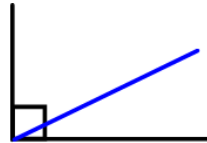
Angles on a straight line add up to 180°



Angles around a point add up to 360°



Angles in a right angle add up to 90°



Angles in a triangle add up to 180°



number of sides	mathematical name
3	TRIANGLE
4	QUADRILATERAL
5	PENTAGON
6	HEXAGON
7	HEPTAGON/ SEPTAGON
8	OCTAGON
9	NONAGON
10	DECAGON
11	HENDECAGON/ UNDECAGON
12	DODECAGON

**Equilateral**



3 sides equal  
3 angles equal

**Isosceles**

2 sides equal  
base angles equal



**Right angled**

1 right angle

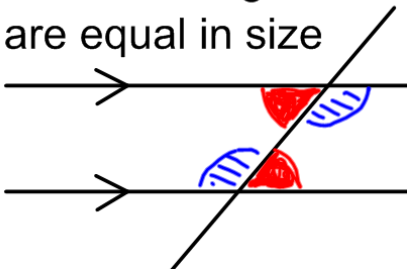


**Scalene**

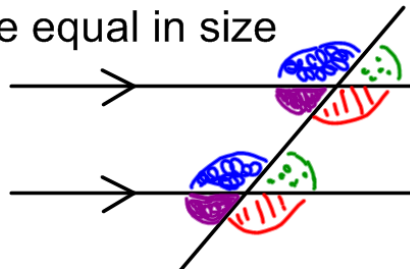
no sides equal  
no angles equal



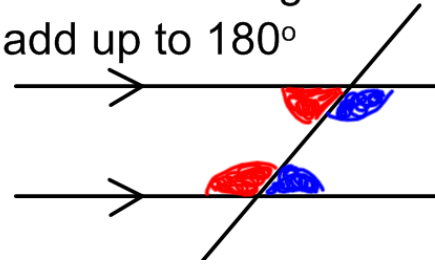
Alternate angles are equal in size



Corresponding angles are equal in size



Co-interior angles add up to 180°



**Key Vocabulary:** Acute, Obtuse, Reflex, Right, Straight, Parallel, Perpendicular, Vertically opposite, Alternate, Corresponding, Co-interior, Polygon, Interior, Exterior

**Key Websites:**

- [www.mymaths.co.uk](http://www.mymaths.co.uk) login is torpoint, see teacher for password
- [www.mrbartonmaths.com](http://www.mrbartonmaths.com)
- [www.corbettmaths.com](http://www.corbettmaths.com)
- [www.justmaths.co.uk](http://www.justmaths.co.uk)
- [www.missbsresources.com](http://www.missbsresources.com)
- [www.onmaths.com](http://www.onmaths.com)
- [www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)
- [www.nrich.maths.org](http://www.nrich.maths.org)