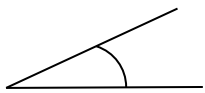
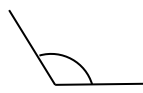


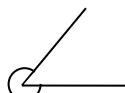
## ANGLES Intermediate Revision



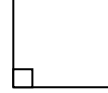
Acute Angle  $< 90^\circ$



Obtuse  
 $90^\circ - 180^\circ$



Reflex angle  
 $180^\circ - 360^\circ$



Right angle  
 $90^\circ$

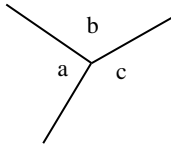
### Angles within in

a full circle =  $360^\circ$

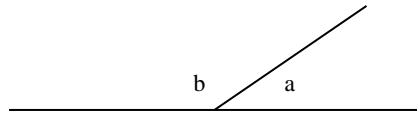
half circle =  $180^\circ$

quarter circle =  $90^\circ$

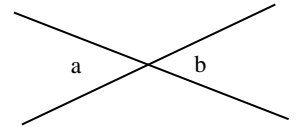
three quarter circle =  $270^\circ$



Angles around a point add to give  $360^\circ$   
 $a + b + c = 360^\circ$

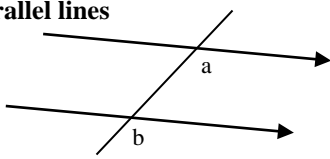


Angles on a straight line add to give  $180^\circ$   
 $a + b = 180^\circ$

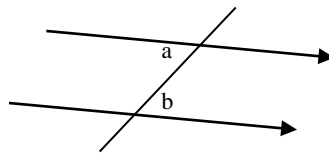


Opposite angles are equal  
 $a = b$

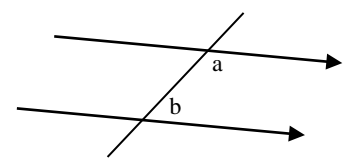
### • Parallel lines



Corresponding angles are equal  $a = b$



Alternative angles are equal  $a = b$

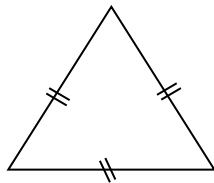


Interior angles add to give  $180^\circ$   $a + b = 180^\circ$

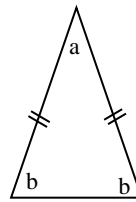
### • Triangles



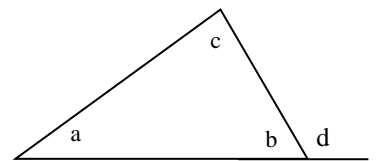
Sum of the angles in a Triangle =  $180^\circ$   
 $a + b + c = 180^\circ$



In an Equilateral triangle  
All sides and angles are equal  
all =  $60^\circ$

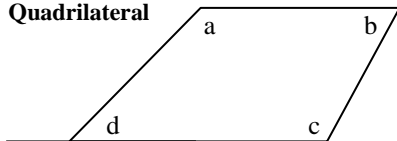


Isosceles triangle  
Two angles and sides are equal



The exterior angle is equal to the sum of the two opposite interior angles  $a + c = d$

### • Quadrilateral



Sum of the interior angles of a quadrilateral =  $360^\circ$   
 $a + b + c + d = 360^\circ$

## POLYGONS

### • Interior and Exterior Angles

Exterior angles of a polygon =  $360^\circ \div$  number of angles

Interior angle =  $180^\circ -$  exterior angle

