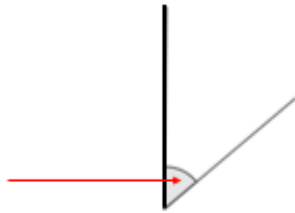
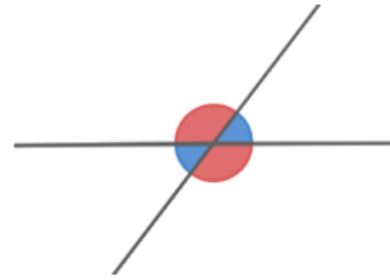




An angle is a measure of the amount of turn between two lines.



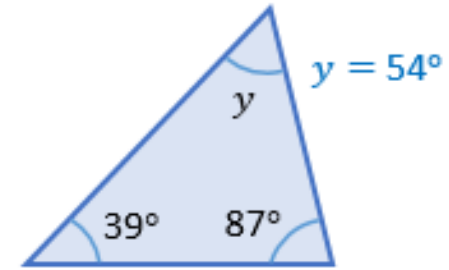
## Year 6 Shape (page 1)



These are called **vertically opposite angles**.

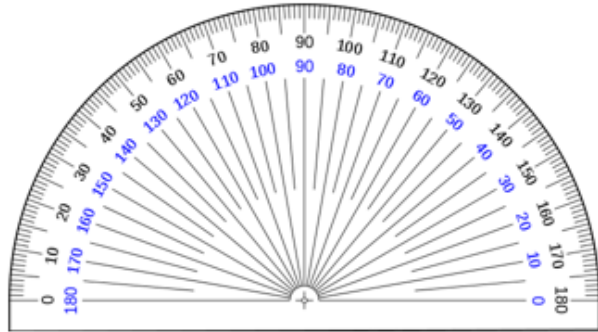
Vertically opposite angles are **equal in size**.

The internal angles of a triangle sum to  $180^\circ$



$$b = 99^\circ$$

The sum of angles on a straight line is  $180^\circ$



This is a **protractor**.

We can use it to measure the **degrees** of turn between two lines.

### Vocabulary

Angles  
degrees  
acute  
obtuse reflex  
protractor  
right angle  
angles on a straight line  
adjacent angles around a point  
vertically opposite  
interior  
triangle  
equilateral  
isosceles  
scalene  
quadrilaterals  
rhombus  
parallelogram  
trapezium  
kite  
square  
rectangle  
parallel polygon  
irregular regular  
circle radius  
diameter  
circumference  
2D 3D  
net

Acute angle:	Obtuse angle:	Right angle:	Straight angle:	Reflex angle:
less than $90^\circ$ and greater than $0^\circ$	less than $180^\circ$ and greater than $90^\circ$	equal to $90^\circ$	equal to $180^\circ$	greater than $180^\circ$ and less than $360^\circ$

Polygon	Number of sides	Sum of internal angles
Quadrilateral	4	$360^\circ$
Pentagon	5	$540^\circ$
Hexagon	6	$720^\circ$
Heptagon	7	$900^\circ$
Octagon	8	$1,080^\circ$



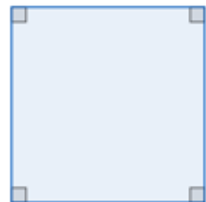
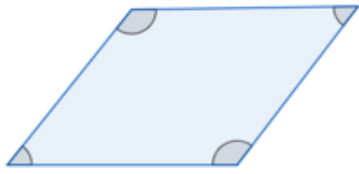
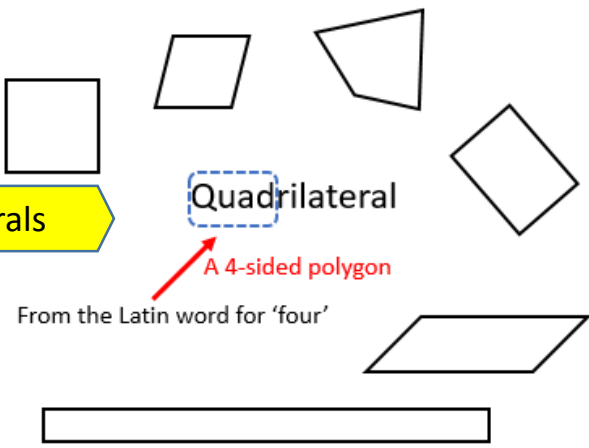
# Year 6 Shape page 2

## Quadrilaterals

### Quadrilateral

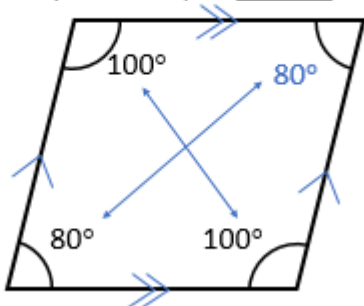
A 4-sided polygon

From the Latin word for 'four'

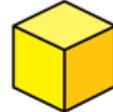


The internal angles in quadrilaterals sum to 360°

A **parallelogram** has two pairs of equal sides and two pairs of equal angles.



Cone



Cube



Cylinder



Pyramid (square-based)



Triangular-prism



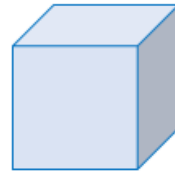
Hexagonal-prism

### 2 dimensions



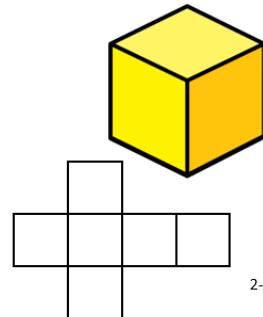
- Is flat
- Has width and length

### 3 dimensions

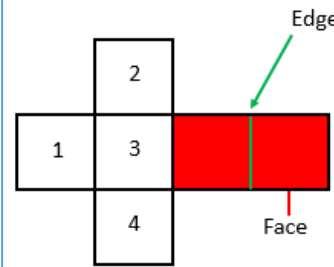


- Is not flat
- Has width and length and height

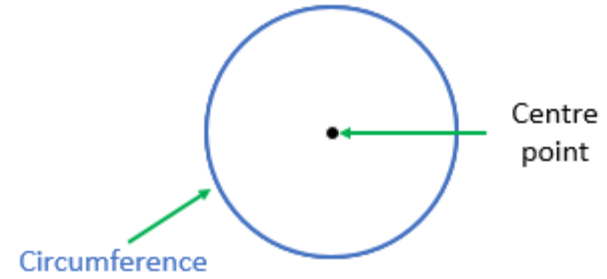
## 3D shapes and nets



This is a net of a cube.  
A net is a 2-dimensional object.

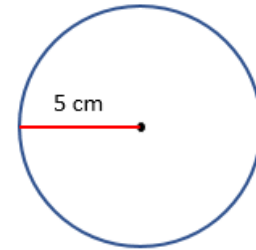


6 faces



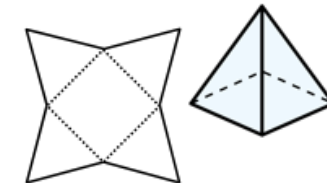
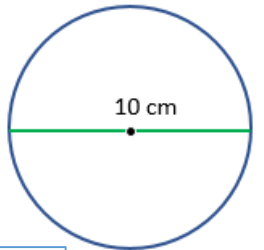
The distance around the edge of a circle is called the **circumference**.

## Circles

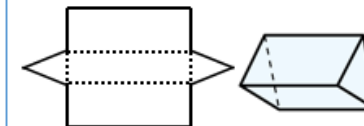


The distance from the centre point to the edge of the circle is called the **radius**.

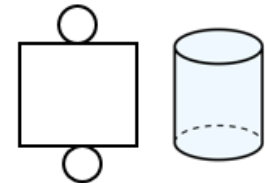
Distance from one edge to the other edge **through the centre point** is called the **diameter**.



Squared-based pyramid



Triangular prism



Cylinder