 less than $90^{\circ}$

Obtuse angles
Any angles that measure more than $90^{\circ}$ and less than $180^{\circ}$

## Reflex angles

Any angles that measure more than $180^{\circ}$

Angles on a straight line always total $180^{\circ}$


Angles around a point always total $360^{\circ}$

$\frac{1}{4}$ turn
$90^{\circ}$
$\frac{18}{\frac{1}{2} \text { turn }}$
$\frac{3}{4}$ turn



Opposite angles that meet at a vertex are equal

## acute angle

## right angle

obtuse angle

## reflex angle

## quadrilateral

regular polygon
interior angles
radius
diameter
circumference

Multiples of $90^{\circ}$ can be used as descriptions of turns


Angles in any triangle total $180^{\circ}$

$$
a+b+c=180^{\circ}
$$



Angles in any quadrilateral total $360^{\circ}$
$a+b+c+d=360^{\circ}$

Angles in regular polygons The sum of interior angles in a triangle is $180^{\circ}$


A square can be split into 2 triangles. The sum of interior angles is $2 \times 180^{\circ}=360^{\circ}$

A pentagon can be split into 3 triangles. The sum of interior angles is $3 \times 180^{\circ}=540^{\circ}$


A hexagon can be split into 4 triangles. The sum of interior angles is
$4 \times 180^{\circ}=720^{\circ}$

## Parts of a Circle


radius

diameter

circumference

- The perimeter of a circle is called the circumference.
- The distance across the circle, passing through the centre is called the diameter
- The distance from the centre of the circle to the circumference is called the radius.
- $2 \times$ radius $=$ diameter
$d=r \times 2$

