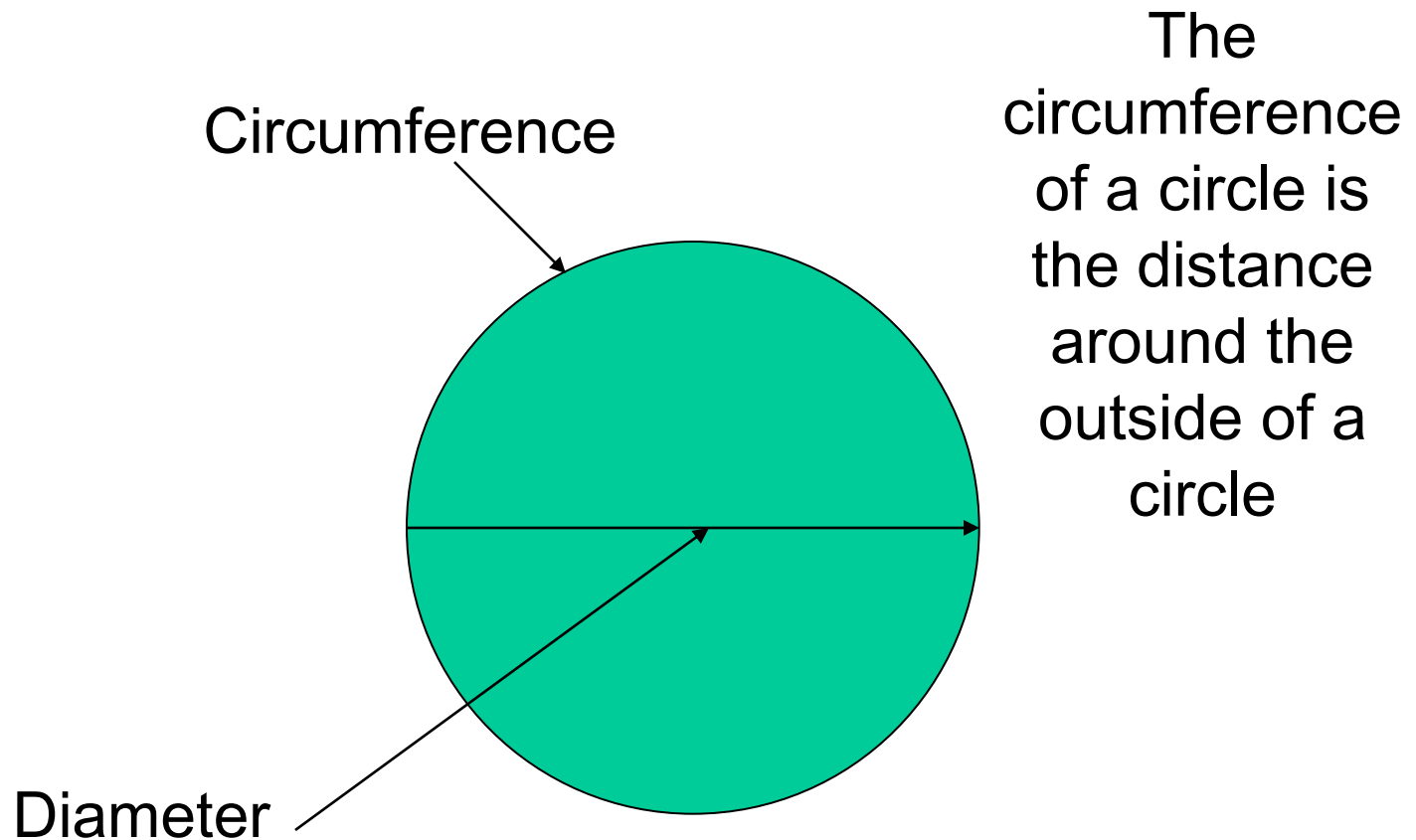


Parts of a Circle

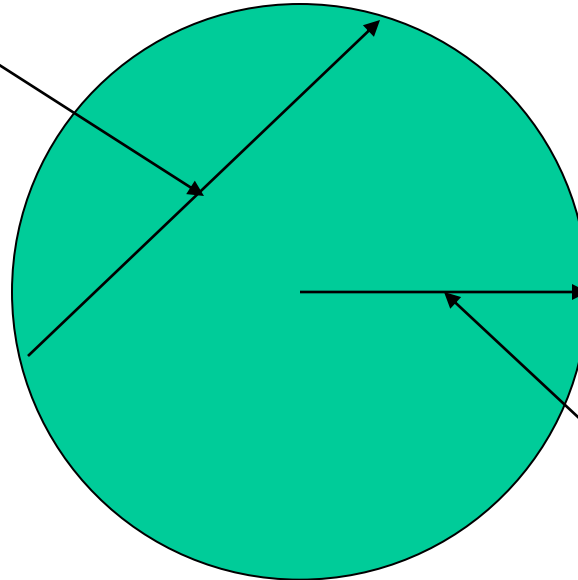
**Aim: To understand and know
the vocabulary for parts of a
circle**



The diameter of the circle is the distance from one side to the other passing through the centre of the circle

A chord is a line touching the circumference of the circle at two points

Chord



Radius

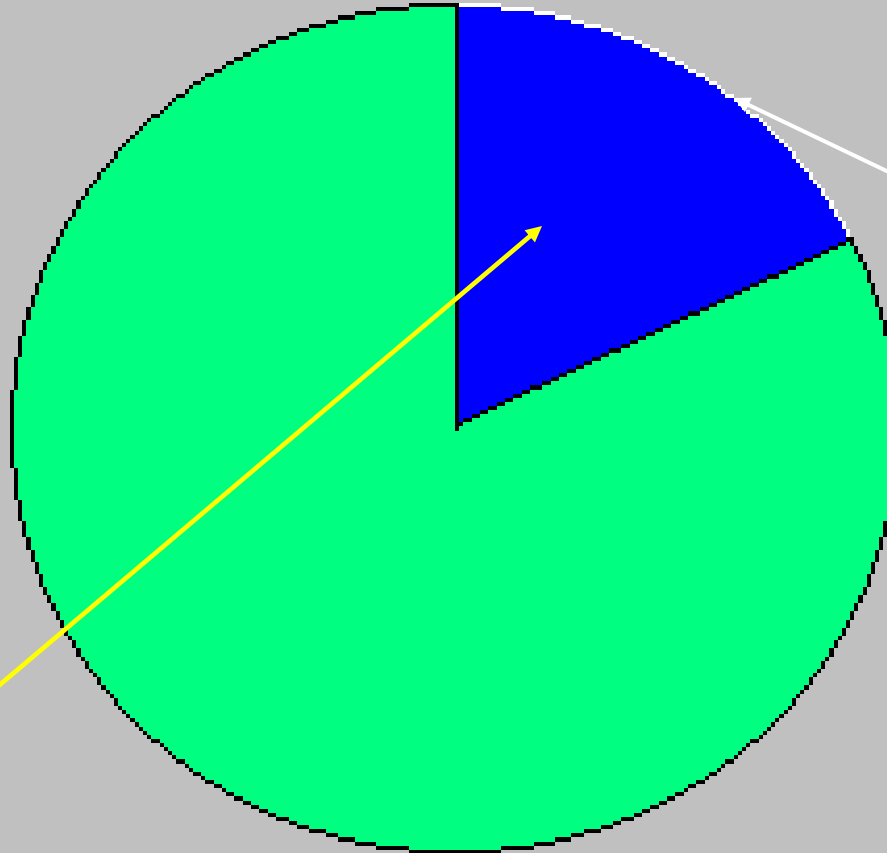
The radius is the line connecting the centre of the circle and the circumference

An arc is the part of the circumference
at the edge of a sector

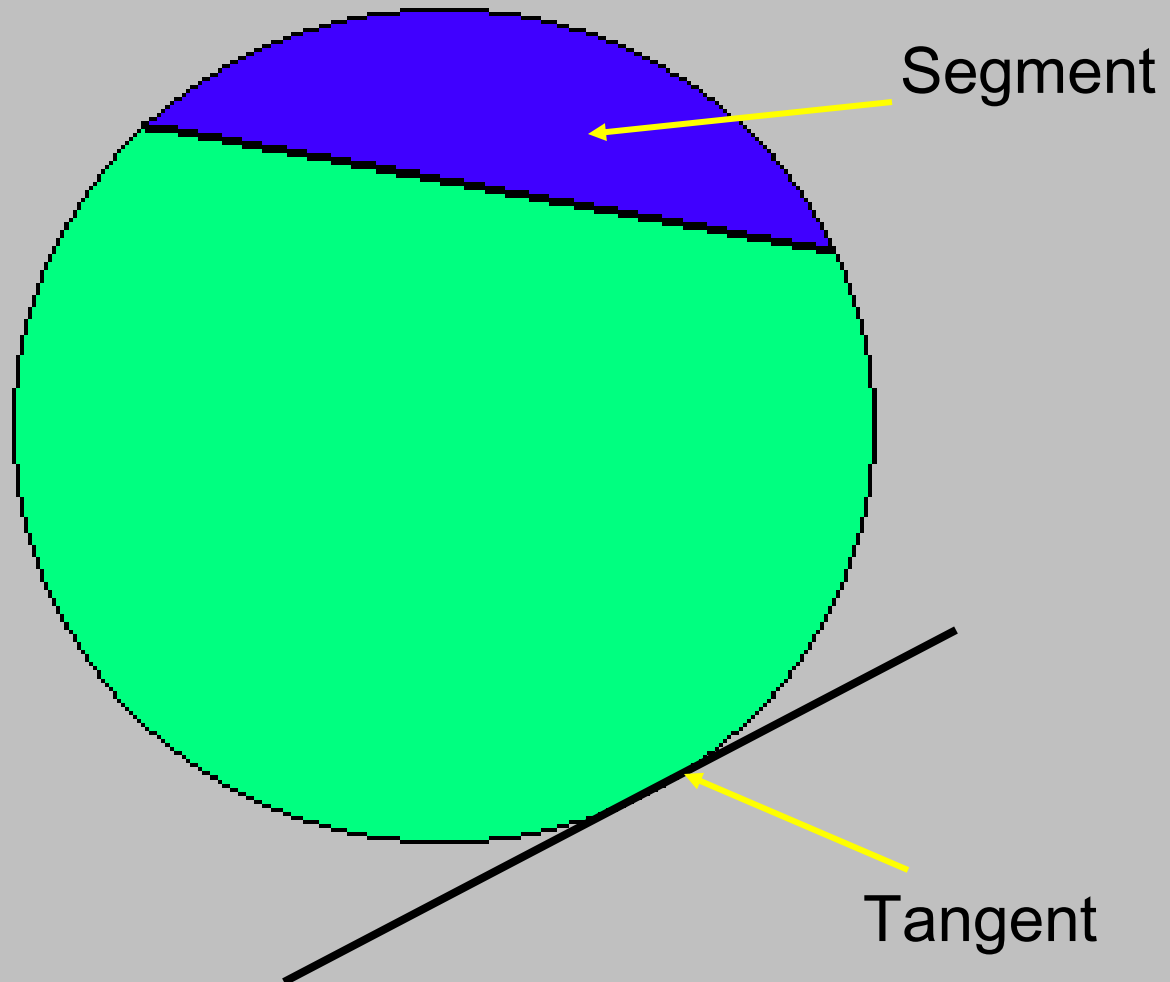
A sector is
the part of
a circle
between
two radii
and an arc

Sector

Arc

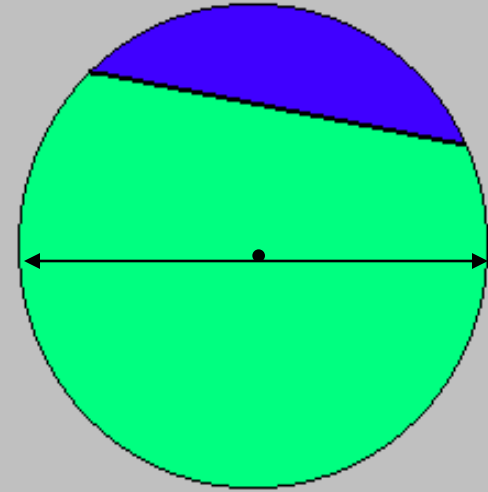
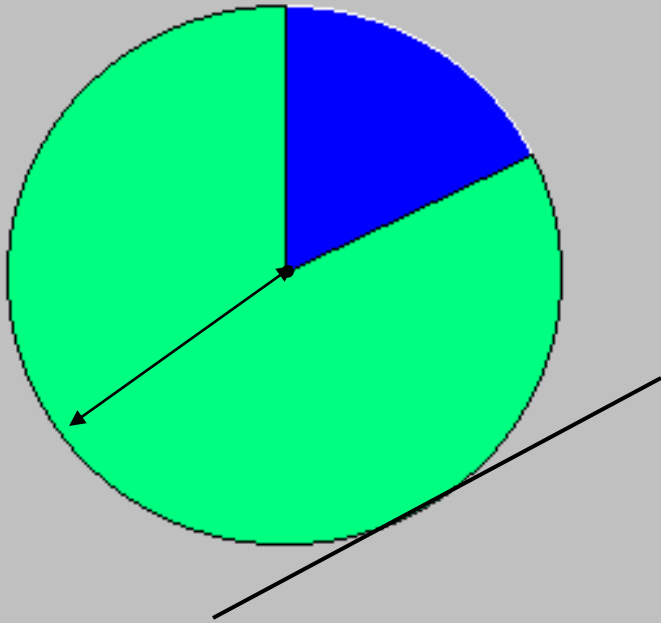


A segment is the part of a circle between a chord and an arc



A tangent
is a
straight
line which
touches a
circle at
one point
only

Copy the two diagrams carefully into your book



Label your two diagrams using the words below

Radius

Diameter

Sector

Segment

Tangent

Arc

Circumference

Chord

Match up the word with the correct definition.

Radius

Chord

Diameter

Arc

Segment

Circumference

Sector

Tangent

The part of a circle between two radii and an arc

A straight line which touches a circle at one point only

The part of a circle between a chord and an arc

A line touching the circumference of the circle at two points

Part of the circumference at the edge of a sector

The distance around the outside of a circle

The distance from one side to the other passing through the centre of the circle

The line connecting the centre of the circle and the circumference

Extension Problems

Draw a circle with radius 4cm.

- ❖ What is the length of the diameter of the circle?
- ❖ How many sectors of 90° will fit inside the circle?
- ❖ Draw five radii inside your circle that are equally spaced out around the circumference. Join up the ends of the radii to create a shape inside your circle.
- ❖ What is the name of the shape that you have created inside your circle?
- ❖ How long are the chords that are joining the radii together?
- ❖ How big is the angle of each sector?
- ❖ If you did the same as above with sectors of 45° , what shape would you create inside your circle?