

Math facts to make you smarter.

1 The meaning of Pi :

Pi is the ratio of the circumference to the diameter of a circle .

$$\pi = \frac{\text{Circumference}}{\text{diameter}}$$

It is an irrational number - $\pi = 3,141592654 \dots\dots\dots$

The numbers never repeat in a pattern and go on and on....

The record in 2014 is at 12,1 trillion digits.

π is the sixteenth letter in the Greek alphabet

Greek alphabet	
Αα Alpha	Νν Nu
Ββ Beta	Ξξ Xi
Γγ Gamma	Οο Omicron
Δδ Delta	Ππ Pi
Εε Epsilon	Ρρ Rho
Ζζ Zeta	Σσς Sigma
Ηη Eta	Ττ Tau
Θθ Theta	Υυ Upsilon
Ιι Iota	Φφ Phi
Κκ Kappa	Χχ Chi
Λλ Lambda	Ψψ Psi
Μμ Mu	Ωω Omega

Approximate Pi :

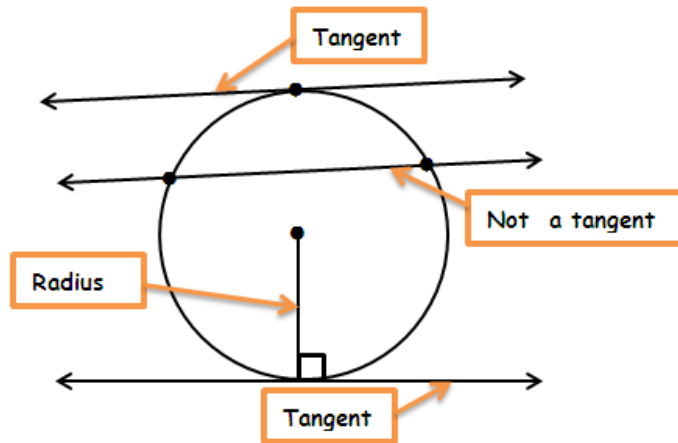
Sometimes we use the ratio $\frac{22}{7}$ which is only good to 2 decimal places.

A better approximation is $\frac{355}{113}$ according to some mathematicians.

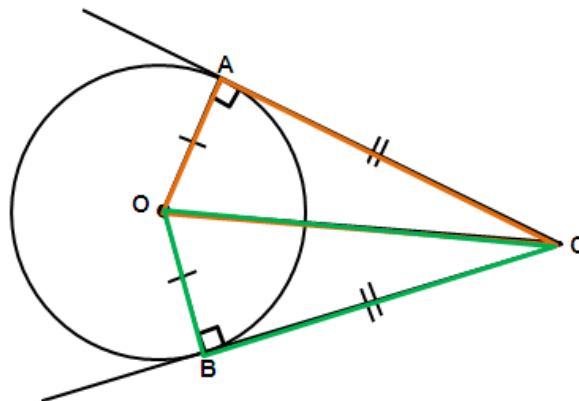
Both the fractions above are rational numbers as they are written in the form $\frac{a}{b}$; $b \neq 0$.

2 Tangent to a circle :

If a line is a tangent to a circle, it is **perpendicular to the radius** of the circle drawn to the point of tangency.



Also : Tangent segments to a circle from the **same external point** are congruent.



The triangles AOC and BOC are also congruent.

This is really easy to remember, you are going to use this knowledge until matric !!