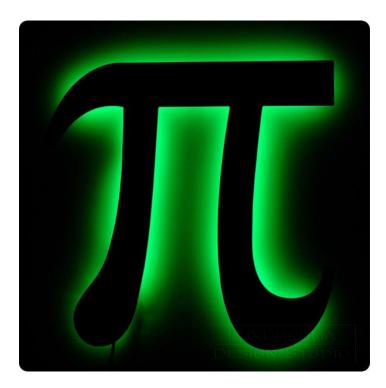
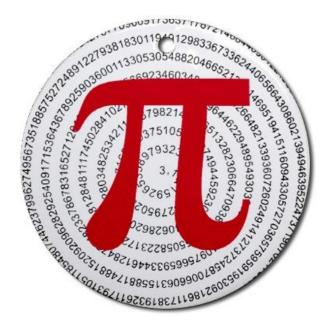
THE LIFE OF





1) What is Pi?

Pi (π) is the ratio of a circle's circumference to its diameter. Pi is a constant number, meaning that for all circles of any size, Pi will be the same.



1) Symbol for Pi?

The symbol (Greek letter " π ") was first used in 1706 by William Jones.

A 'p' was chosen for 'perimeter' of circles, and the use of π became popular after it was adopted by the Swiss mathematician Leonhard Euler in 1737

3.141	592653	58979323	84626	43383
27950288	419716	939937510	58209	974944
5923078164	062862	089986280	03482	534211
70679821480	865132	82306647	09384	46095
50582231 725	359 <mark>408</mark>	1284811		
45028410 270:	193852	110 <mark>5559</mark>	544	
62 <mark>29</mark> 48 95 <mark>4</mark> 9	303 <mark>81</mark>	964 <mark>4288</mark>	109	
75 66593	334 <mark>46</mark>	128475 6	482	
33786	578 <mark>3</mark> 16	5271201	909	
1456 [,]	485 <mark>66</mark>	9284603	486	
10454	32664	8213393	607	
26 <mark>02</mark> 4	91 <mark>412</mark>	7372458	700	
660631	55881	7488152	0920	962829
2540917	1536	43678925	90360	001/13/305
305488204	16652	13841469	95194	1511609
4330572703	36575	9591953	09218	611738
1932611793	1051	1854807	74462	37 <mark>9</mark> 962
7495673518857		527248912279381		
8301194912		983 3673 362		
44065		66430		

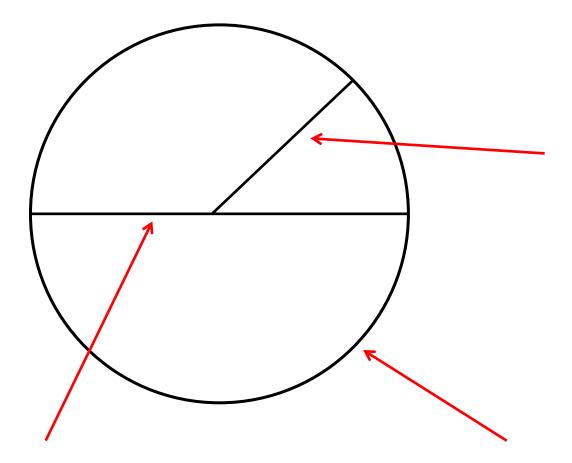
1) Value of Pi?

PI=3.141592653589793 2384626433832795028 8419716939937510.....

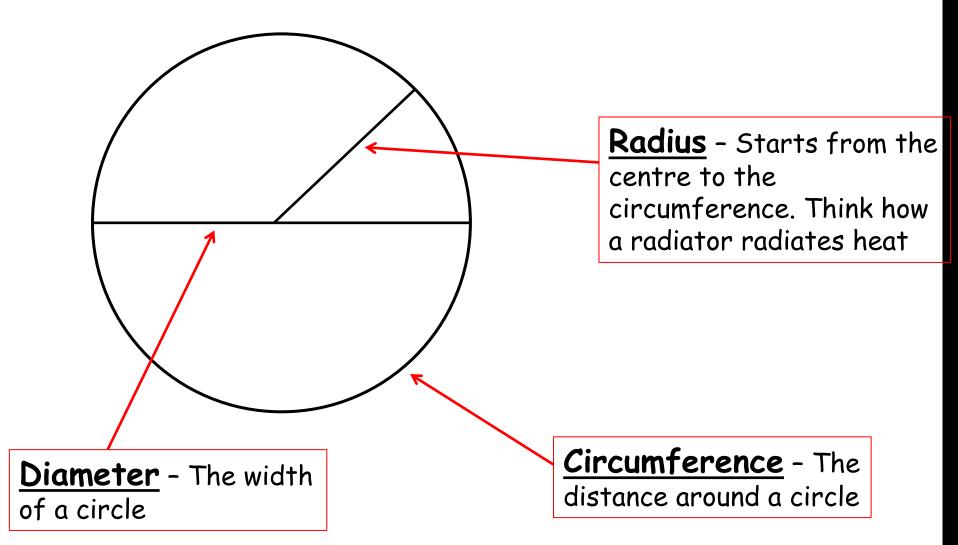
The value of Pi can be written to an infinite amount of decimal places

Sometimes we round Pi to 2 decimal places and use the value 3.14. Why?

2) PARTS OF A CIRCLE



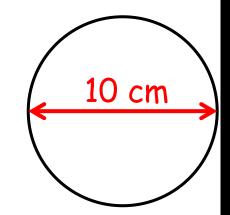
2) PARTS OF A CIRCLE



3) CIRCUMFERENCE/ PERIMETER OF A CIRCLE

To calculate the circumference of a circle, the distance around a circle, we simply do this;

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



3) CIRCUMFERENCE OF A CIRCLE

Try to calculate the circumference of a basketball hoop.

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

= 3.14 x 46cm

Circumference = 144.44cm



ONLY KNOW THE RADIUS ??

Remember that the radius is $\frac{1}{2}$ of the diameter

OR the diameter is equal to 2 × radius, (2r), so we can also write this formula as:

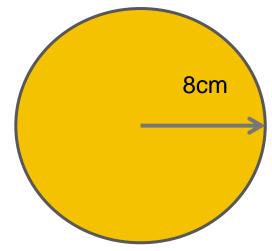
$C = 2\pi r$

It does not matter which you use – as long as you are clear whether it is the diameter or radius.

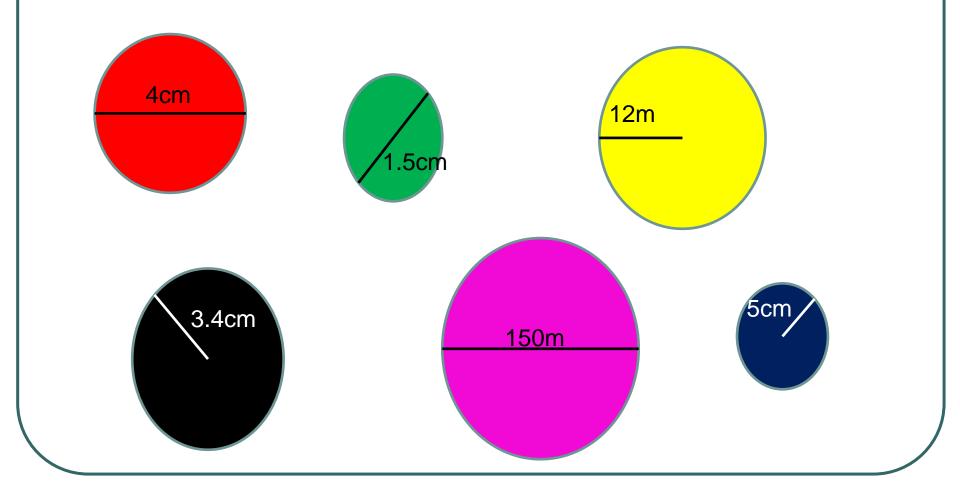
 $C = 2\pi r$

 $C = 2 \times 3.14 \times 8$

C = 50.24cm



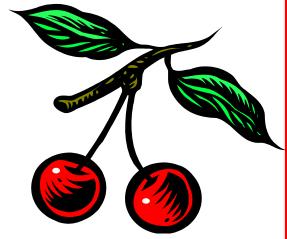
Calculate the circumference of these circles



HOW TO REMEMBER.....

Cherry pies taste delicious!

$C = \pi \times d$

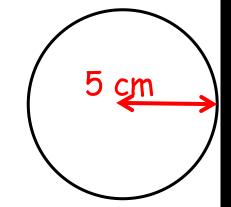


4) AREA OF A CIRCLE

Area is the space inside a shape. Like a play area – the space where you play. We can calculate the area in a circle by doing this;

Area = $\pi \times radius^2$

- $= 3.14 \times 5^2$
- $= 78.5 \text{ cm}^2$



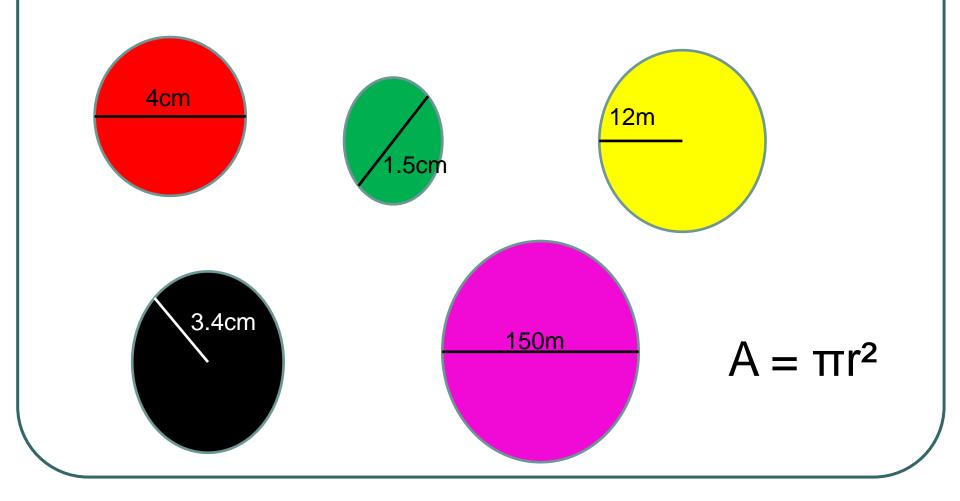
4) ONLY GOT THE DIAMETER

There is only 1 formula – so you must always find the radius first by halving the diameter.

Try to calculate the area of a coin



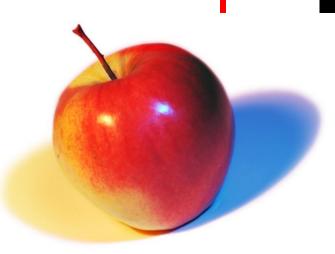
Calculate the area of these circles



HOW TO REMEMBER.....

Apple pies are too!

$A = \pi r^2$



Calculate the Area of a football pitch centre circle?





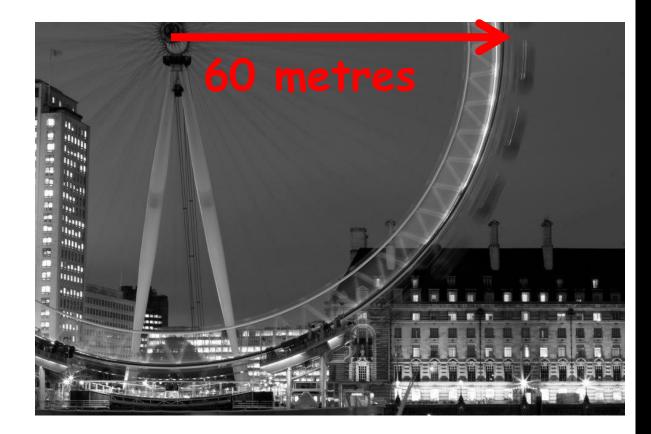
Area

Area = π x radius²

= 3.14 × 9²

= 254.34 m²

Calculate the Area and Circumference the London Eye?





Circumference

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

= 3.14 x 120m

= 376.8. m

Area

Area = π x radius²

 $= 3.14 \times 60^{2}$

= 11304 m²