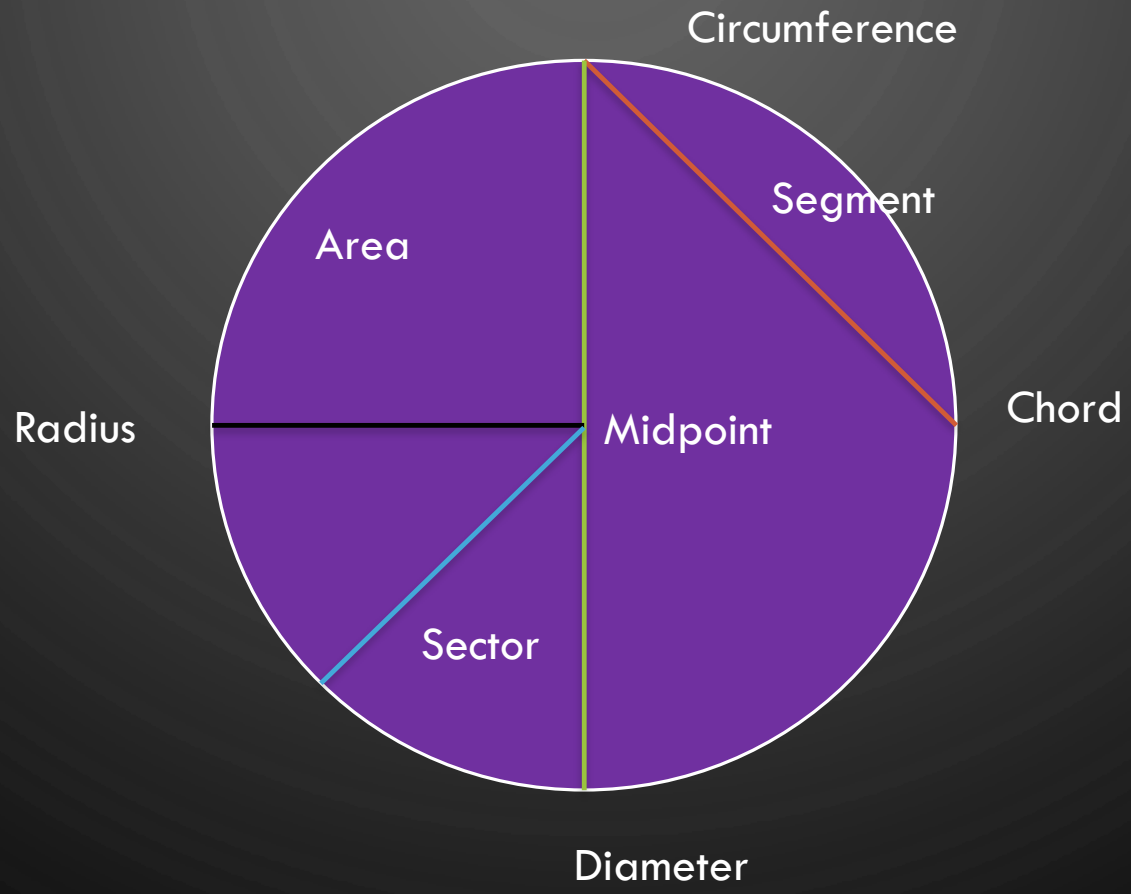
To calculate the area of a circle using $\pi = 3.14$.

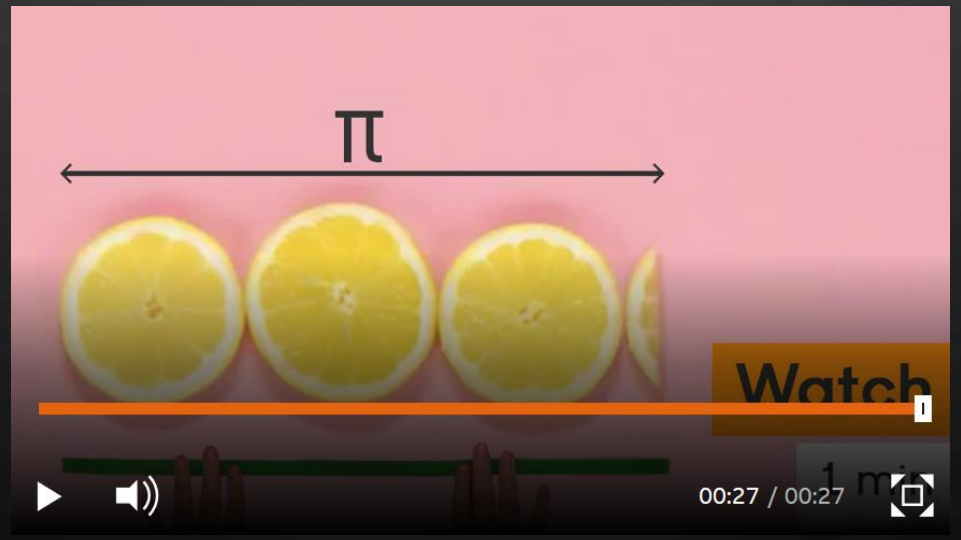
What can you remember about the different terminology of a circle?



Today we area going to think about how we can use the radius of a circle to help calculate the area of a circle.

What do you know about this symbol? π

Pi, or π, is a number that is used to represent the ratio between a circle's circumference and diameter.



π

- The value of π is always that same no matter how big the circle is.
- Its value is usually expressed as 3.14 however this has been rounded to 2dp.
- The decimals in the number π will go on infinitely.

The formula for finding the **area** inside a circle is expressed as:

$$A = \pi r^2$$

$$\text{Area} = \pi \times \text{radius}^2$$

$A = \pi r^2$

For example:

$A = \pi r^2$

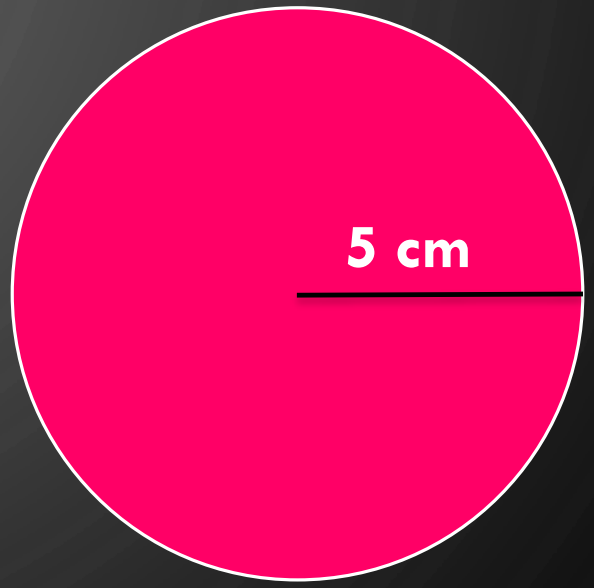
Area = π x radius^2

Area = π x 5cm^2

Area = 3.14 x 5cm^2

Area = 3.14 x 25cm^2

Area = <u>78.5cm^2</u>



Remember

π = 3.14

$A = \pi r^2$

Success Criteria:

- ✓ π is equal to 3.14
- ✓ Following the formula step by step
- ✓ Check your calculation
- ✓ BODMAS
- ✓ Units of measure

Remember

$\pi = 3.14$

Have a go:

$A = \pi r^2$

Area = π x radius^2

Area = π x 7cm^2

Area = 3.14 x 7cm^2

Area = 3.14 x 49cm^2

Area = 153.86cm^2