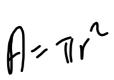
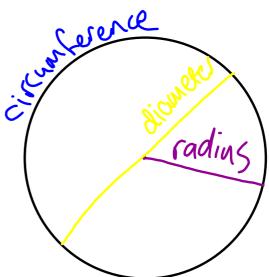
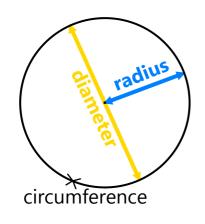
C-71d

Today's Learning:

To revise finding the area and circumference of a circle.





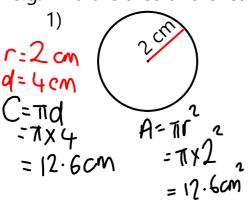


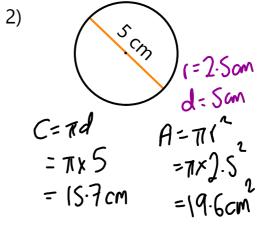
Circle

$$C = \pi d$$

$$A = \pi r^2$$

e.g. Find the area and circumference:

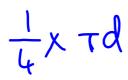


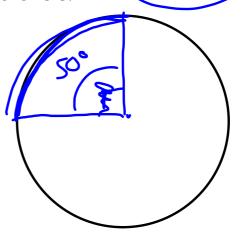


360

Today's Learning:

Calculating the length of an arc of a circle.





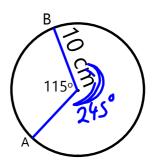
Arc Length

An arc length is a section of the circumference of a circle. Use the angle as a fraction of 360°.

Arc length =
$$\frac{\text{angle}}{360^{\circ}} \times \pi \times d$$

E.g. 1) Find the length of the minor arc AB.

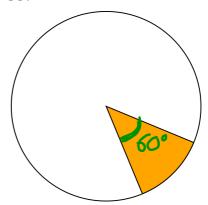
$$f)rc = \frac{115}{360} \times \pi \times 20$$



Today's Learning:

To calculate the area of sectors of circles.

$$A = \frac{60}{360} \times 715^{2}$$

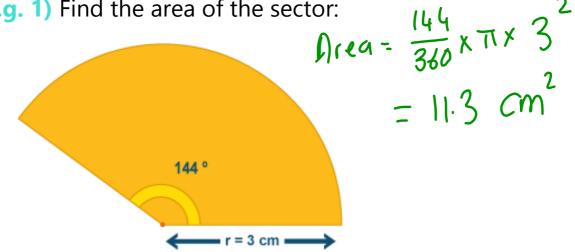


Sector Area

A sector is a fraction of a circle's area.

Sector Area =
$$\frac{\text{angle}}{360^{\circ}} \times \pi \times r^2$$

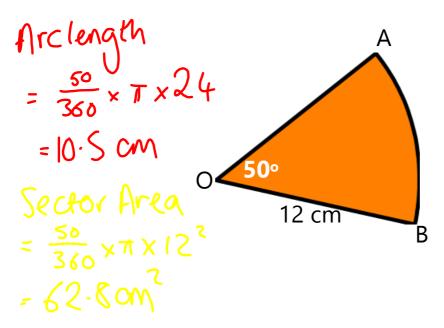
e.g. 1) Find the area of the sector:



Today's Learning:

To use arc length and sector area when solving problems.

Find the arc length AB and the sector area:



10.4719... 62.8318...