

Summer Term Maths Year 10

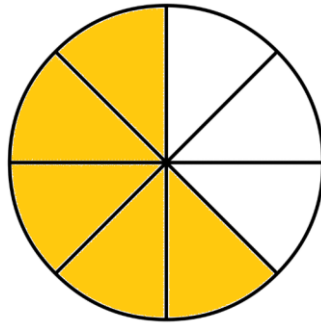
Area of a sector

Day
3

Week 4

1

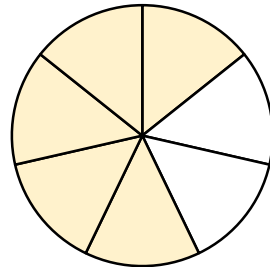
The area of this circle is 80 cm^2 .
The circle is divided into 8 equal parts.



- (a) What is the area of the shaded sector?
- (b) What is the area of the non shaded sector?

2

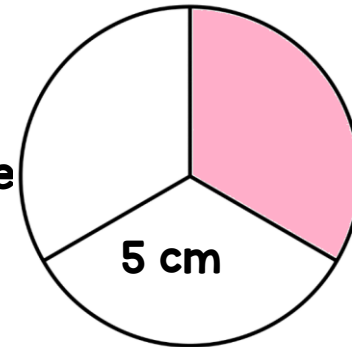
The area of this circle is $56\pi \text{ cm}^2$. The circle is divided into 7 equal parts.



What is the area of the shaded part of the circle in terms of pi?

3

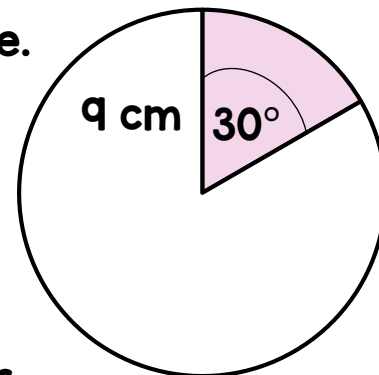
The radius of a circle is 5 cm. It has been divided into 3 equal sectors. Find the area of one of the sectors to 3 s.f.



4

The radius of a circle is 9 cm. Here is a sector of a circle.

- (a) What fraction of the circle is shaded?
- (b) Find the area of the shaded sector to 3 s.f.



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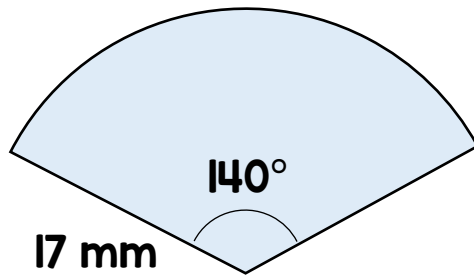
Area of a sector

Day 3

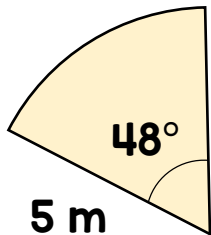
Week 4

- 5** Find the area of each of these sectors.
Give your answers to 3 s.f.

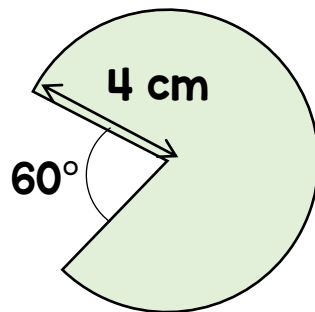
(a)



(b)



(c)



- (d) Work out the area of (b) in terms of pi.

- 6** A sector has an area of 60 cm^2

- (a) Find the angle of the sector if the radius is 8 cm.
- (b) Find the radius if the angle of the sector is 72°

7

- A windscreen wiper has a length of 40 cm and turns through an angle of 105° . The windscreen has an area of 0.2 m^2 . What percentage of the windscreen is cleared?

