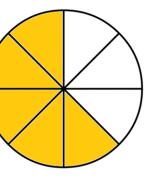
## Summer Term Maths Year 10

## Area of a sector



Maths

The area of this circle is 80 cm<sup>2</sup>. The circle is divided into 8 equal parts.



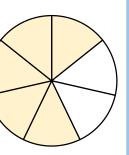
(a) What is the area of the shaded

sector? 50 cm<sup>2</sup>

(b) What is the area of the non shaded

sector? 30 cm<sup>2</sup>

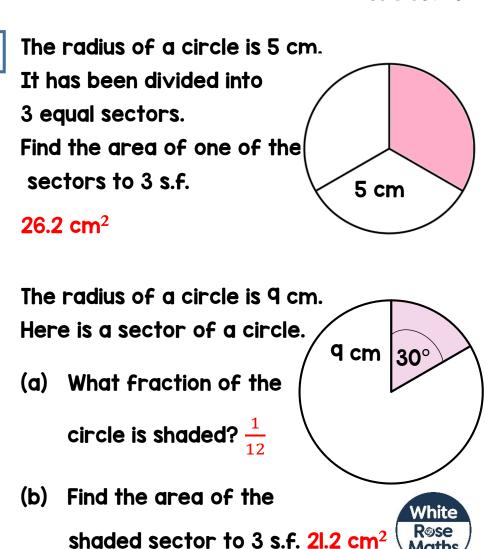
The area of this circle is 56 $\pi$  cm<sup>2</sup>. The circle is divided into 7 equal parts.



4

What is the area of the shaded part of

the circle in terms of pi?  $40\pi$  cm<sup>2</sup>

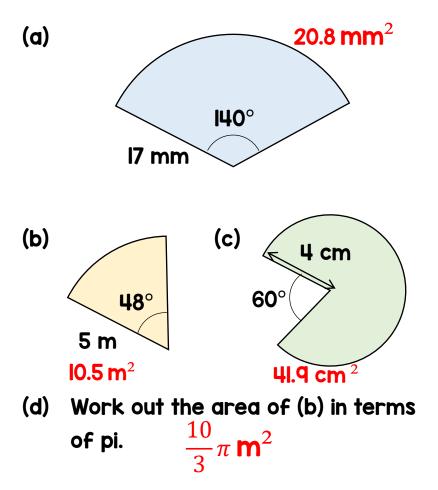


## Summer Term Maths Year 10

## Area of a sector



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



6 A sector has an area of 60 cm<sup>2</sup>

- (a) Find the angle of the sector if the radius is 8 cm. 107°
- (b) Find the radius if the angle of the sector is  $72^{\circ}$  9.77 CM

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<sup>2</sup>. What percentage of the windscreen is cleared? 73%

