

Today's Learning:

To be able to find the length of an arc of a circle.



What is the length of the arc?



What is the length of the arc? $C = \pi d$ $= \pi \times 6$ = 18.85 $\div 3$ = 6.28 cm





Today's Learning:

To find the area of a sector of a circle.



Sector Area

A sector is a fraction of the area of a circle (like a pie



The area of the yellow segment is 12cm².



Starter 1) Fully factorise the following: a) 2m² + m - 3 b) b² - 9 c) 2h² + 14h + 20 $(b+3)(b-3)(h^2+7h+10)$ $(2m_{1})$ (M- I 2(h+5)(h+2)2) Using the formula, find the gradient of the straight line that joins: a) (1, 3) and (7, 9) b) (-2, 1) and (-5, -4) gr = 2-1 3) The lengths of the sides of this triangle are shown. If the triangle is equilateral, find T. -2T+14=2(7.3)T - 1 = 2(T - 1)-27+14=27-6 T-1=2T-6 TS=05+TS--1= 7-6 20=4T 5=T 5=T

Working Backwards16/3/17Fill in what you know and rearrange the equation.

e.g. 1) The length of the minor arc is 12 cm. Find the angle *x*. $Arc length = \frac{x}{360} \times \pi \times d$ 15 cm 12= x x x x 30 +360 +360 12×360 = 5××π×30 ÷T -30 − T -30 $12x360 \div \tau \div 30 = x$ x = 45.8°(354)

Today's Learning:

Working backwards to find angles, diameters and radii.