Name: SOLUTIONS

GCSE (1 - 9)

Area of a Segment

Buy me a coffee

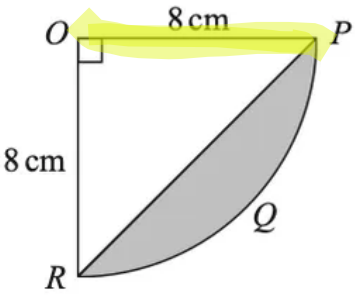
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These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***November 2021*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk
These worksheets were made using examq.co.uk

Question	Paper where the question appeared
1	Edexcel, GCSE, Autumn 2021, Paper 3H, Q7

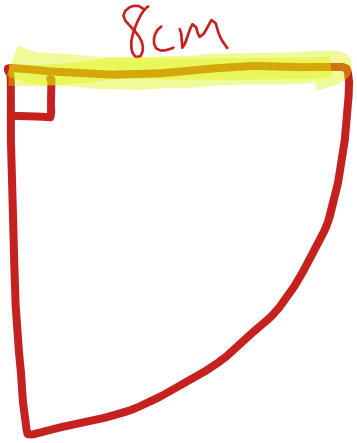
1

The diagram shows a sector $OPQR$ of a circle, centre O and radius 8 cm.

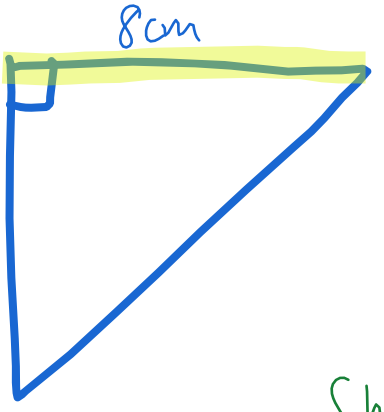


OPR is a triangle.

Work out the area of the shaded segment PQR.
Give your answer correct to 3 significant figures.



Area of Sector $= \frac{\pi(8)^2}{4} = \frac{64\pi}{4} = 16\pi$



Area of Triangle $= \frac{8 \times 8}{2} = \frac{64}{2} = 32$

Shaded Area $= 16\pi - 32 = 18.3$ ..... cm^2

(Total for Question 7 is 4 marks)

[Edexcel, GCSE, Autumn 2021, Paper 3H, Q7]