ARC LENGTH & AREA of Section of a CIRCLE

Examiner only Arholwr yn unig

The diagram shows a circle with centre O.

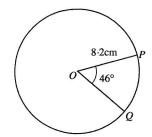


Diagram not drawn to scale.

(α) The circle has a radius of 8·2 cm and $PQQ = 46^{\circ}$. Calculate the length of the arc PQ.

[3]

(b) Calculate the area of the mis- sector poor

)

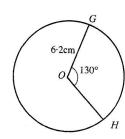


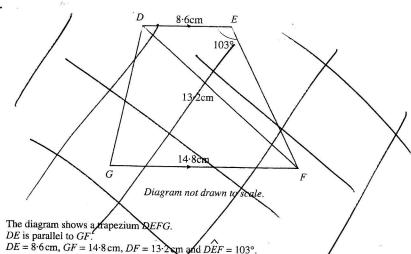
Diagram not drawn to scale.

The diagram shows a circle with centre O and radius 6.2 cm. The points G and H lie on the circumference of the circle and $\widehat{GOH} = 130^{\circ}$.

Calculate the length of arc GH, giving your answer to an appropriate degree of accuracy.

[3]

14.



Turn over.