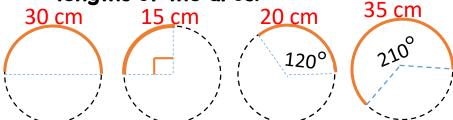
Summer Term Maths Year 10

Length of an Arc



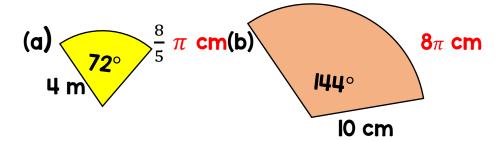
The circles below have a circumference of 60 cm. Find the lengths of the arcs.



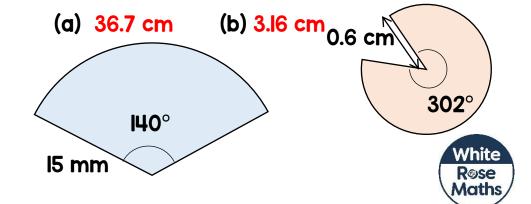
Fill in the blanks giving your answer in terms of π where appropriate.

Angle at centre	Circumference	Arc Length
60 °	72 π	12π
270 °	72 π	54 π
240°	45 π	30π
240 °	90 π	60π

3 Find the lengths of the arcs below in terms of π .



Find the lengths of the arcs below giving your answer to 3 significant figures.



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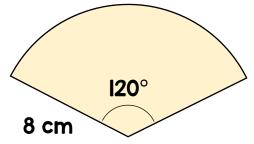
Length of an Arc



5 Find the perimeter of this sector.

Give your answer in terms of pi. $\frac{16}{3}\pi + 16$

cm

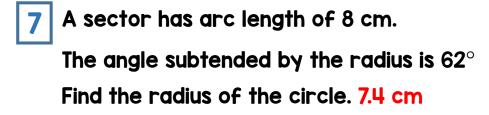


Find the perimeter of this sector.

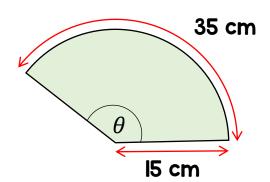
Give your answer to a suitable degree of accuracy. 274 m

55°

92.6 m



8 Find the angle marked θ . |34 $^{\circ}$



Write an expression for the perimeter of this shape? The length of the rectangle is twice the width.

$$5x + \frac{3}{4}\pi x$$