

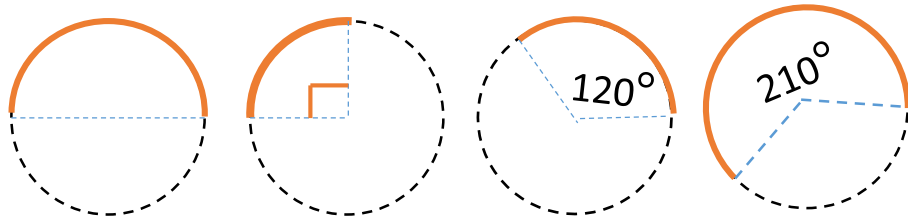
Summer Term Maths Year 10

Length of an Arc

Day 4

Week 4

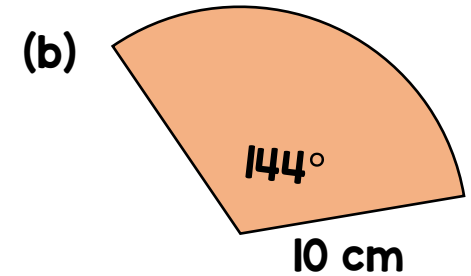
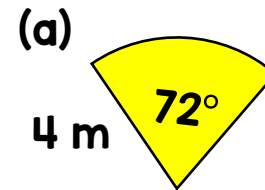
1 The circles below have a circumference of 60 cm. Find the lengths of the arcs.



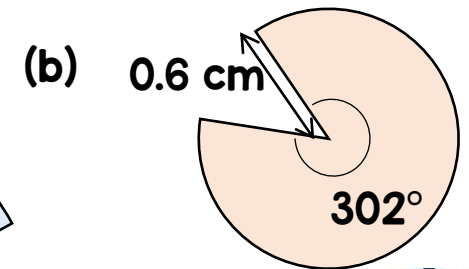
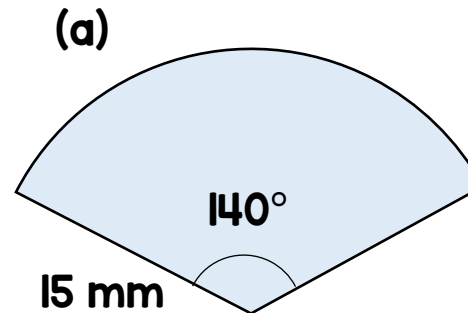
2 Fill in the blanks giving your answer in terms of π where appropriate.

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

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



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



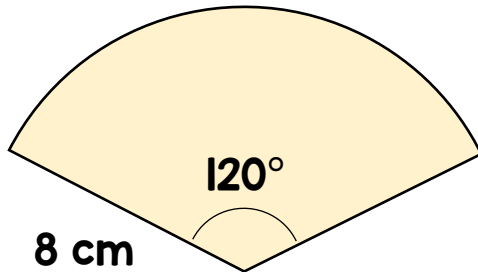
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Length of an Arc

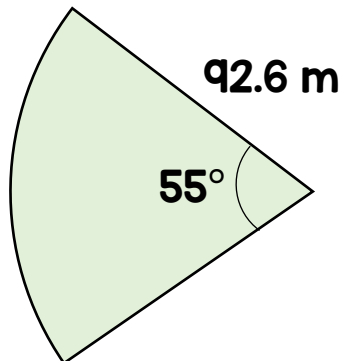
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- 5 Find the perimeter of this sector.
Give your answer in terms of pi.

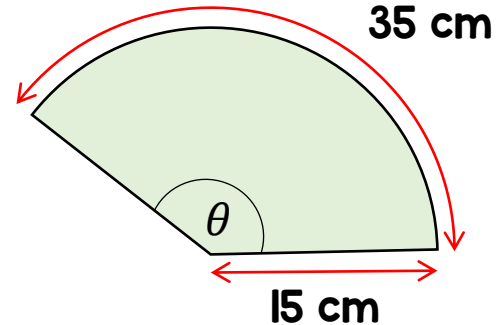


- 6 Find the perimeter of this sector.
Give your answer to a suitable degree of accuracy.



- 7 A sector has arc length of 8 cm .
The angle subtended by the radius is 62° .
Find the radius of the circle.

- 8 Find the angle marked θ .



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

