

Lengths of arcs

86a

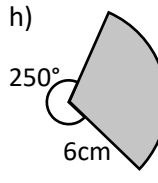
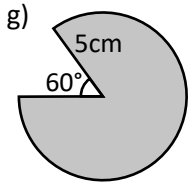
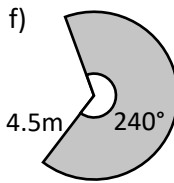
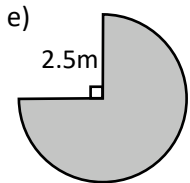
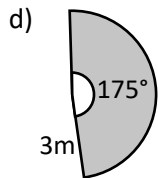
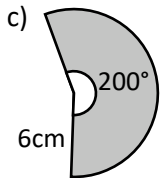
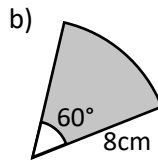
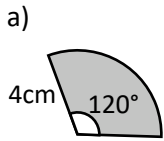


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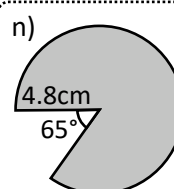
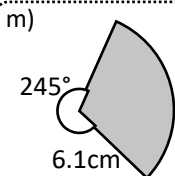
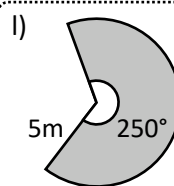
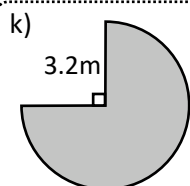
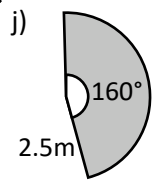
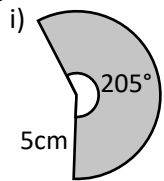
Name: _____



Calculate the arc length of these sectors (leave your answer correct to 2 decimal places):

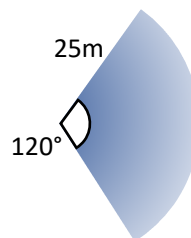


Calculate the **perimeter** of the sectors (leave your answer correct to 2 decimal places):



Exam question:

Farmer Collins fertilises his field. He uses an industrial spray which rotates around an angle of 120° at a distance of 25m. He cordons off the area being sprayed with rope. What is the length of the rope needed to the nearest metre.



Area of sectors

86b

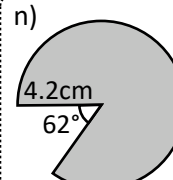
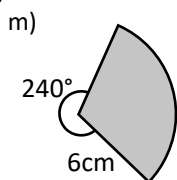
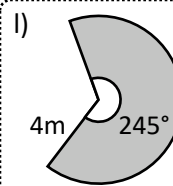
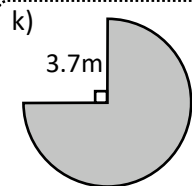
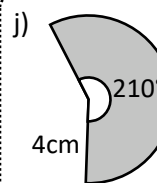
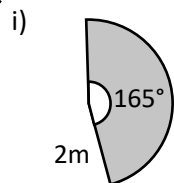
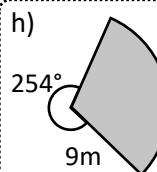
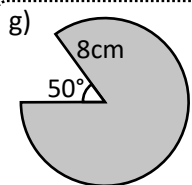
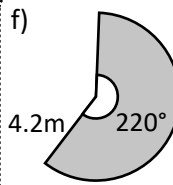
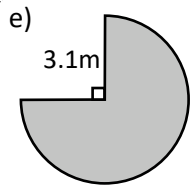
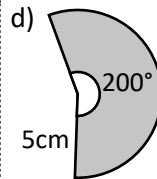
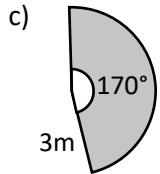
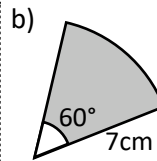
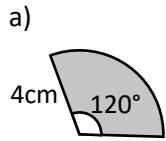


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Calculate the area of these sectors (leave your answer correct to 2 decimal places):



Exam question:

The diagram shows a sector of a circle, centre O.
 The radius of the circle is 12 cm.
 The angle of the sector is 140° .
 Calculate the area of the sector.
 Give your answer correct to 3 significant figures

