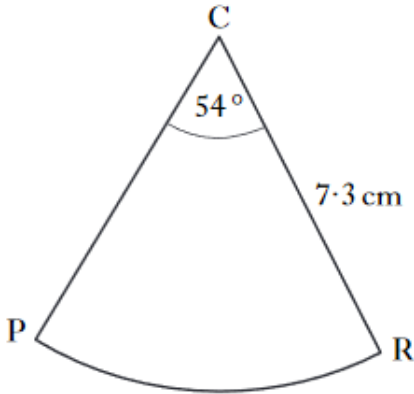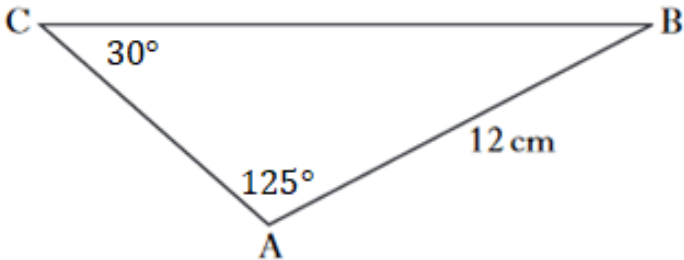| C2	Calculator Paper	
1	£14 000 is placed in a long-term savings account with an interest rate of 4.5% per anum. Calculate the total amount held in the savings account after 4 years. Give your answer rounded to the nearest penny.	**3**
2	The diagram shows a sector of a circle with a centre C. The radius of the circle is 7.3 centimetres and angle PCR is 54 ° Calculate the length of the arc PR.	**3**
3	For this triangle: Side AB is 12 cm Angle A is 125° Angle C is 30° Find the length of side BC	3
4	The heights, in centimetres, of 6 netball players are given below. 170 169 164 172 178 167 Calculate the mean and standard deviation for these heights.	4
5	Solve the equation $2x^2 + 3x - 1 = 0$, Give your answers correct to **one decimal place**.	3

6	In the diagram, • O is the centre of the circle • PQ is the diameter of the circle • PQR is a straight line • RS is a tangent to the circle • Angle OPS is 28 ° Calculate the size of angle QRS.	3

7	In triangle ABC: AB is 2.7 metres, BC is 4.2 metres and AC is 5.9 metres. Calculate the size of the largest angle in this triangle.	3

8	Solve algebraically the equation $$5 \sin x + 3 = 0, \ \ 0 \le x \le 360$$	3

9	 The cylinder and the hemisphere shown above have the same volume. The cylinder has a diameter of 10 centimetres and a height of 4 cm. Calculate the radius of the hemisphere.	5

	30 marks	