

NAME

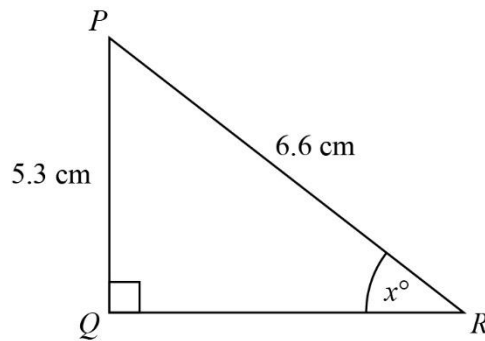
Time:



Calculator Questions



- 1 The diagram shows a triangle PQR .
The lengths of the sides are given correct to 1 decimal place.



- a Work out the upper bound for the value of x .

(2 marks)

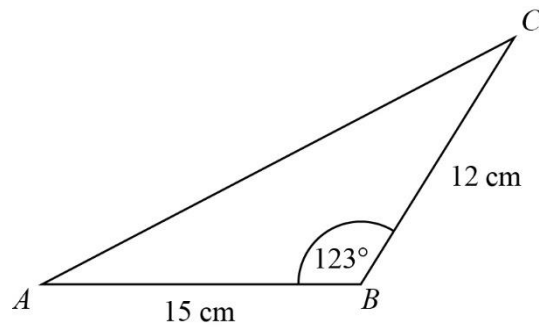
- b Work out the lower bound for the value of x .

(2 marks)

- c Write the value of x to a suitable degree of accuracy.

(1 mark)

- 3 The diagram shows triangle ABC .



- a Find the area of triangle ABC .

(2 marks)



- b Find the length of the side AC .

(2 marks)



- 5 Complete the following, inserting angles between 0° and 90° on the dotted lines.

a $\sin \dots\dots\dots^\circ = \sin 150^\circ$

(1 mark)

b $\sin \dots\dots\dots^\circ = \sin 179^\circ$

(1 mark)

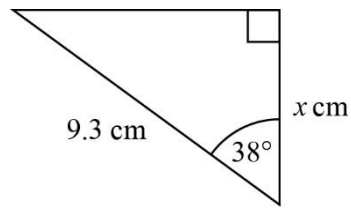


- 7 Write down two values of x such that $\sin x = \frac{\sqrt{3}}{2}$

(2 marks)



- 9 The diagram shows a right-angled triangle. 9.3 cm is correct to 1 decimal place. 38° is correct to the nearest degree.



- a Find the upper bound for x .

(2 marks)

- b Find the lower bound for x .

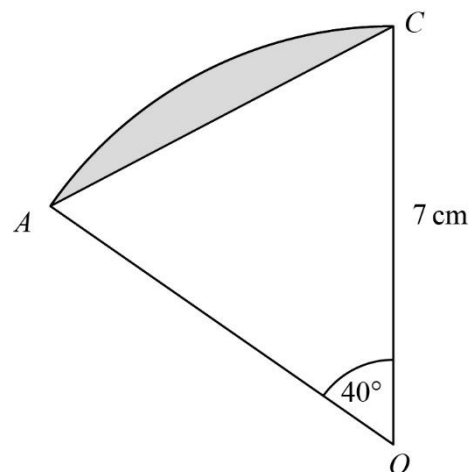
(2 marks)

- c Write the value of x to a suitable degree of accuracy.

(1 mark)



- 11 AOC is a sector of a circle, centre O .



Q11

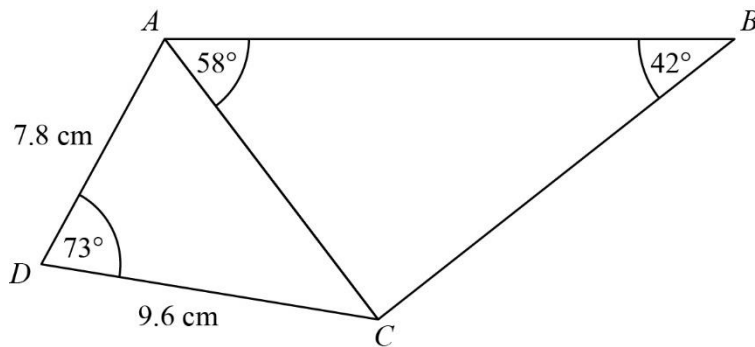
Find the shaded area.

Give the correct units with your answer.



(5 marks)

13 The diagram shows a quadrilateral $ABCD$.



Work out the length of the side BC .

(5 marks)



15 Solve the equation $2\cos x = 1$ for $0^\circ \leq x \leq 360^\circ$

(2 marks)

Overall mark	/50
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