

SCAN ME

The Cosine Rule

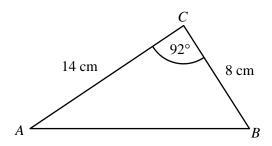


REVISE THIS TOPIC

CHECK YOU'R **ANSWERS**



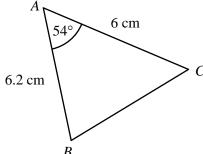
Here is triangle ABC.



Work out the length of *AB*. Give your answer to 1 decimal place.

(Total for Question 1 is 3 marks)

Here is triangle ABC.



Work out the length of *BC*. Give your answer to 1 decimal place.

(Total for Question 2 is 3 marks)





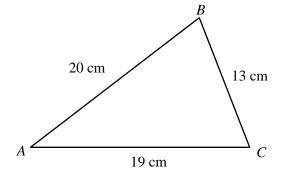








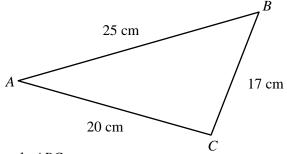
Here is triangle ABC.



Work out the size of angle BAC. Give your answer to 1 decimal place.

(Total for Question 3 is 3 marks)

Here is triangle ABC.



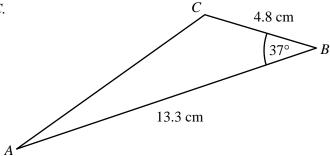
Work out the size of angle ABC. Give your answer to 1 decimal place.



(Total for Question 4 is 3 marks)



5 Here is triangle *ABC*.

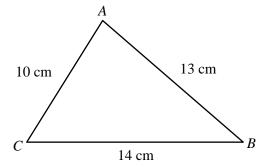


Work out the length of *AC*. Give your answer to 1 decimal place.

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(Total for Question 5 is 3 marks)

6 Here is triangle *ABC*.



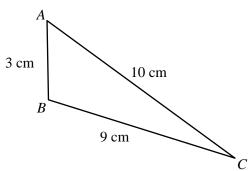
Work out the size of angle *BCA*. Give your answer to 1 decimal place.

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(Total for Question 6 is 3 marks)



7 Here is triangle *ABC*.

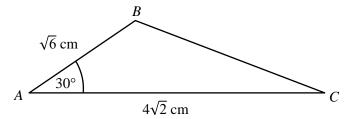


Work out the size of angle *ABC*. Give your answer to 1 decimal place.

(Total for Question 7 is 3 marks)

8 Here is triangle *ABC*.





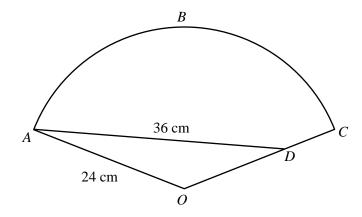
Work out the length of *BC*.

Give your answer in the form \sqrt{k} , where k is an integer.



(Total for Question 8 is 4 marks)

ABCO is a sector with centre O.



D is the point on OC so that OD:DC=5:3

AO = 24 cm

AD = 36 cm

Work out the area of the sector.

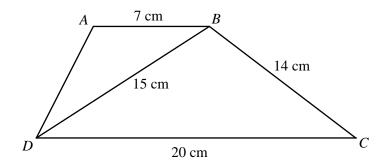
Give your answer to 1 decimal place.

	.cm ²
otal for Ouestion 9 is 5 marks)	





10 ABCD is a trapezium with AB parallel to CD.



Work out the length of line *AD*. Give your answer to 1 decimal place.

tal for Question 10 is 5 marks)

 $(Total\ for\ Question\ 10\ is\ 5\ marks)$



11	Boat A	and E	Boat B	both	leave t	the	Port	P at	12pm.	
									r	

Boat A travels on a bearing of 112° and travels at a constant speed of 16 mph. Boat B travels on a bearing of 220° and travels at a constant speed of 14 mph.

At 2:30 pm, what is the direct distance between the two boats.

(Total for Question 11 is 5 marks)

