



CSEE- Basic Maths

Trigonometry & Pythagoras

Questions and Answers

Videos with expert tutorials on each topic

CSEE Basic Maths

Revision Topic:

Trigonometry & Pythagoras

Section A

Lesson 10 (Revision Week 4)

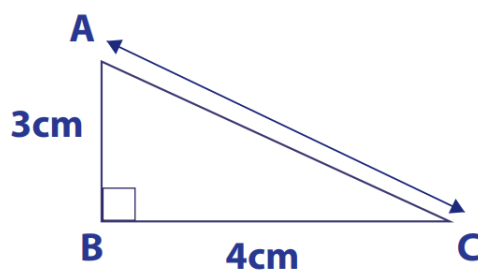
Instructions: Complete this worksheet and watch this revision video simultaneously on

www.mathsmemory.co.uk/International

Pause and Play the video unlimited times to review your work and write the answers in the blank spaces. Once you have written your answers, check these with the tutorial answers, as explained in the video.

Self Assess yourself (Out of 10) on your **revision planner** after you have completed the revision video .

ABC is a right angle triangle
Find the unknown length AC



Bronze



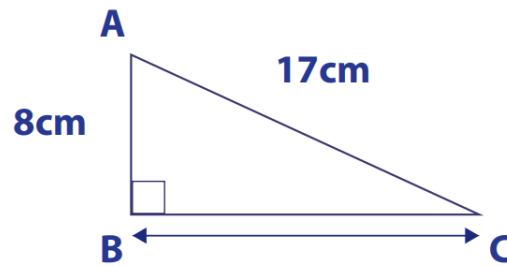
Calculator

Core - Bronze

Topic: Trigonometry & Pythagoras' Theorem

Question 2

ABC is a right angle triangle
Find the unknown length BC



Bronze



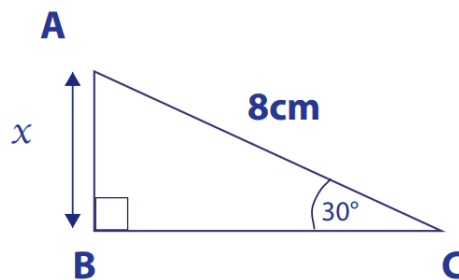
Calculator

Core 3 - Bronze

Topic: Trigonometry & Pythagoras' Theorem

Question 3

ABC is a right angle triangle
Find the unknown length AB



3. Apply ONE (below)

2.



1. Label sides(H,O,A)

Bronze



Calculator

Core 4 - Bronze

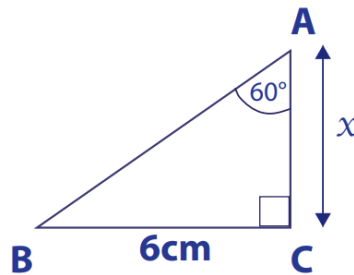
Topic: Trigonometry & Pythagoras' Theorem

Question 4

ABC is a right angle triangle

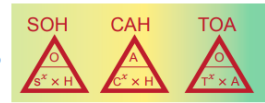
Find the unknown length AC

Give your answer to 3 significant figures.



3. Apply ONE (Below)

2.



1. Label sides(H,O,A)

Bronze



Calculator

Core 5 - Bronze

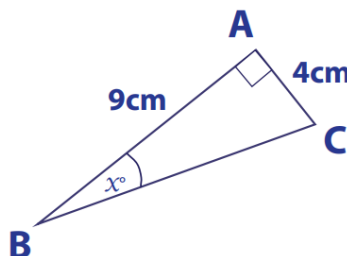
Topic: Trigonometry & Pythagoras' Theorem

Question 5

ABC is a right angle triangle.

Find the unknown angle $\hat{ABC}$

Give your answer to 3 significant figures.



3. Apply ONE

2.



1. Label sides(H,O,A)

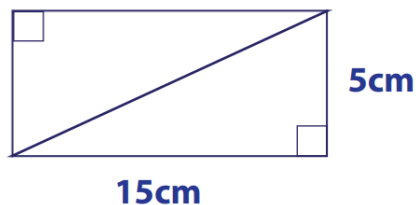
Bronze



Calculator

Question 6

This rectangular frame is made from 5 straight pieces of metal.



The weight of the metal is 2.5 Kg per metre.

Work out the total weight of the metal in the frame (give your answer in grams).

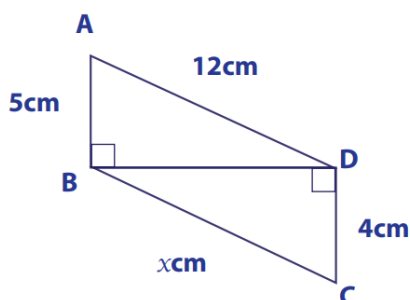
SILVER



Calculator

Question 7

Triangles ABD and BCD are right angles triangles.



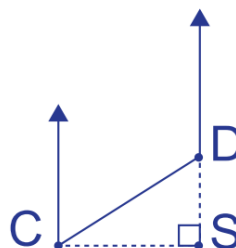
Work out the value of x . Give your answer to 3 significant figures.

SILVER



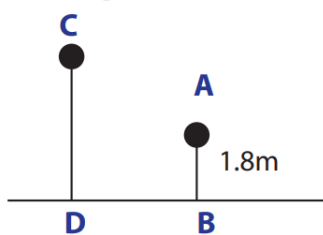
Calculator

The diagram show two towns C and D.
Ship S is exactly 5 km due east of town C
and exactly due south of town D.
Town C is on a bearing of 215° from town D.
Find the distance, ship S is due south of town D.



Calculator

The diagram shows two lamp posts, AB and CD on a horizontal ground.



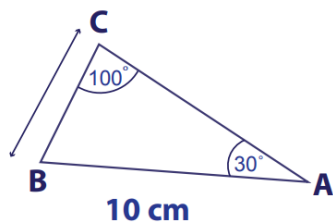
$AB = 1.8\text{m}$
 $CD : AB = 2.5 : 1$
 The angle of elevation of C from A is 55°
 Calculate the length of BD.
 Give your answer to 3 significant figures.



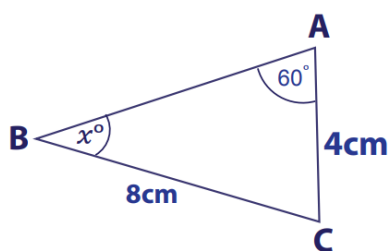
Calculator

Question 10

a) Calculate the unknown length BC



b) Calculate the unknown angle ABC



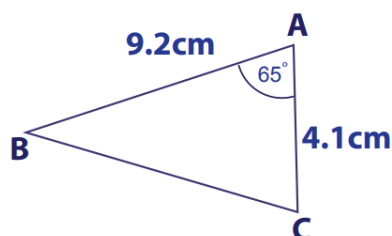
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Calculator

Question 11

Calculate the area of triangle ABC



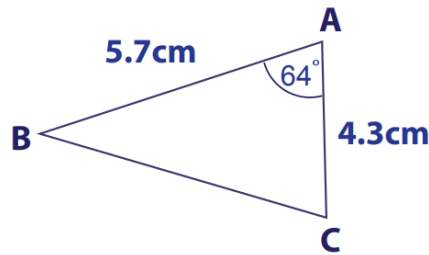
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Calculator

Question 12

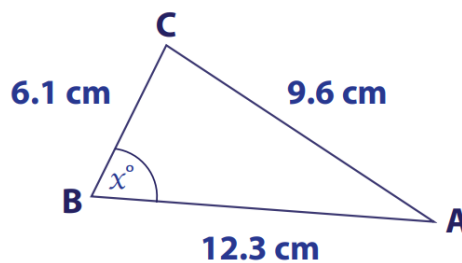
Calculate the length BC.



SILVER
Calculator

Question 13

Calculate the angle ABC.



SILVER
Calculator

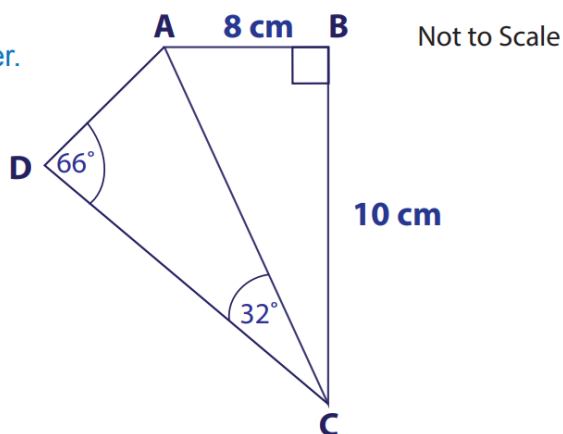
Question 14

The diagram shows two triangles adjoined to one another.

$AB = 8\text{ cm}$ $BC = 10\text{ cm}$

Angle $ADC = 66^\circ$ Angle $DCA = 32^\circ$

Calculate the length AD



Gold



Calculator

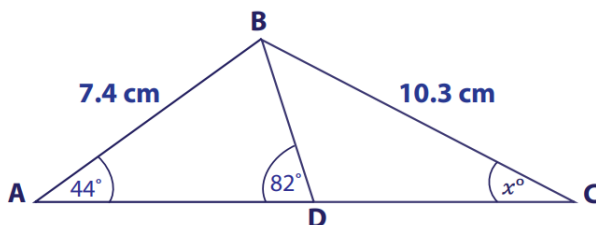
Question 15

ABC is a triangle. D is a point on line AC

$AB = 7.4\text{ cm}$ and $BC = 10.3\text{ cm}$

Angle $BAD = 44^\circ$ Angle $BDA = 82^\circ$

Calculate the angle DCB



Gold

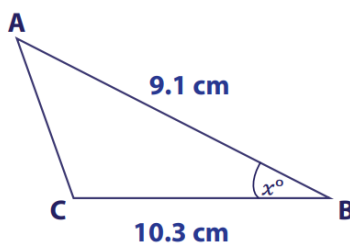


Calculator

Question 16

The area of the triangle ABC is 22cm^2
 $AB = 9.1\text{cm}$ $CB = 10.3\text{cm}$

Calculate the angle ABC



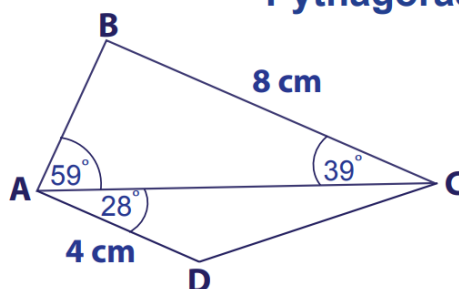
Gold



Calculator

Question 17

The shape shows triangles ABC and ADC
 Angle BAC = 59° Angle BCA = 39° Angle DAC = 28°
 $BC = 8\text{cm}$ and $AD = 4\text{cm}$
 Calculate length DC



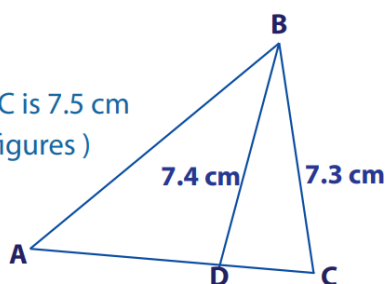
Gold



Calculator

Question 18

ABC is a triangle. BC is 7.3 cm. BD is 7.4 cm
The straight line AC is such that AD: DC = 2:1. AC is 7.5 cm
Calculate the length AB. (Write to 3 significant figures)



Platinum



Calculator