

# Trigonometry (SOH-CAH-TOA)

Please write clearly in block capitals

Forename:

Surname:

## Materials

For this paper you must have:

- mathematical instruments



You **can** use a calculator.

## Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

## Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

## Advice

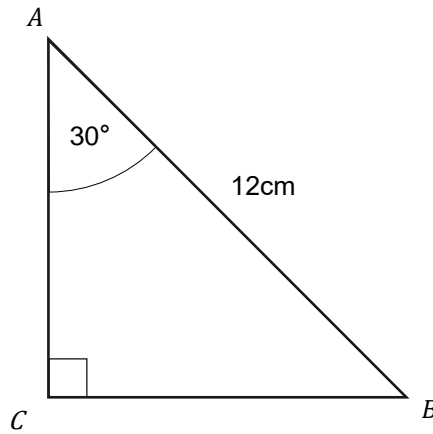
- In all calculations, show clearly how you work out your answer.

1  $ABC$  is a right-angled triangle.

(Level 5)

$\angle BAC$  is  $30^\circ$

$AB = 12$  cm



Not drawn  
accurately

Using trigonometry, find the length of the side  $CB$ .

Show all your workings.

[3 marks]

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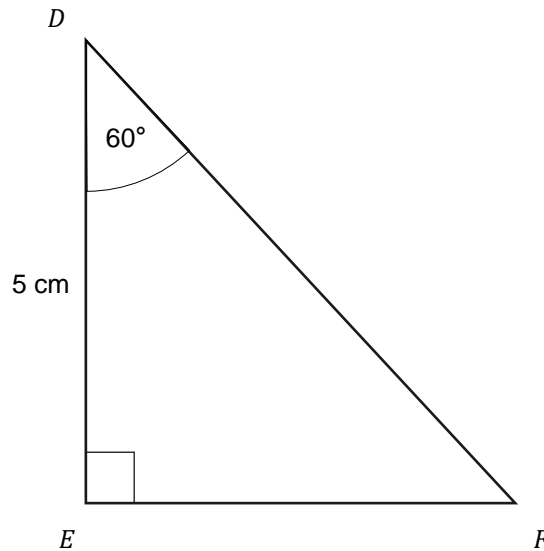
Answer \_\_\_\_\_

Turn over for next question

2

 $DEF$  is a right-angled triangle

(Level 5)

 $DE = 5$  cm $\angle EDF = 60^\circ$ Not drawn  
accurately

2(a)

Find the length  $DF$ .

[3 marks]

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Answer \_\_\_\_\_ cm

2(b)

Using your answer to part (a) find the length  $EF$ .

Show all your workings.

[3 marks]

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Answer \_\_\_\_\_ cm

Turn over for next question

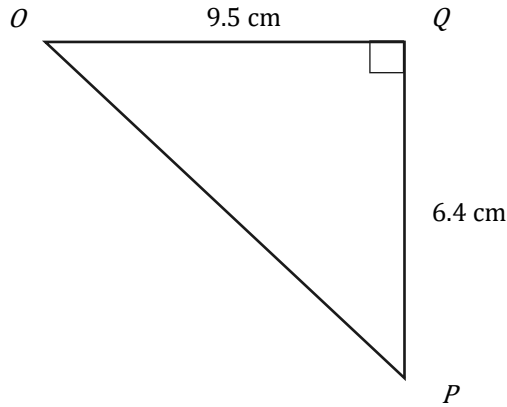
Turn over ►

3 Below is a right angled triangle

(Level 5)

$$OP = 6.4 \text{ cm}$$

$$OQ = 9.5 \text{ cm.}$$



Not drawn accurately

3(a) Find the size of the angle  $POQ$ . Give your answer to 2 decimal places

[3 marks]

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Answer \_\_\_\_\_

3(b) What is the size of angle  $OPQ$ ?

[1 mark]

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Answer \_\_\_\_\_



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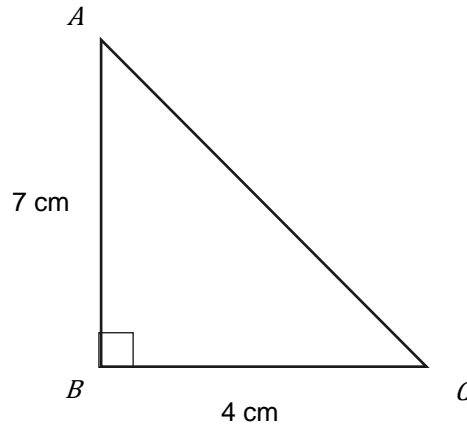


4  $ABC$  is a right-angled triangle

(Level 5)

Side  $AB = 7\text{cm}$

Side  $BC = 4\text{cm}$



Not drawn  
accurately

4(a) Find the size of angle  $CAB$   
Give your answer to 2 decimal places

[3 marks]

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Answer \_\_\_\_\_

4(b) Find the size of angle  $ACB$ .

[1 mark]

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Answer \_\_\_\_\_

Question continues on next page

- 4(c) Find the side length  $AC$  using trigonometry.  
Give your answer to 2 decimal places. You must show all workings.

[3 marks]

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Answer \_\_\_\_\_



### GCSE Maths Revision Guide

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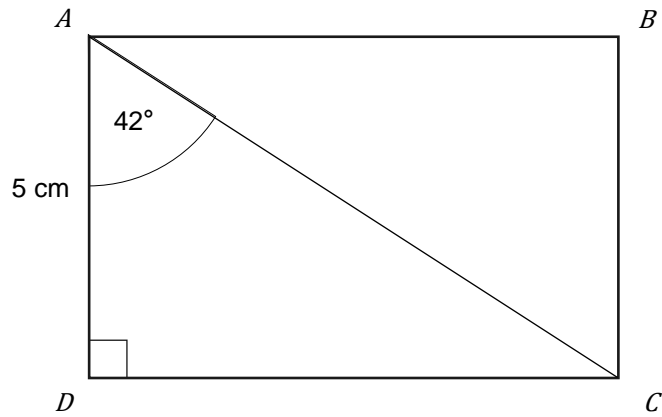


Turn over ►

5

Below is a rectangle.

(Level 5)

Angle  $DAC$  is 42 degrees.Side  $AD$  is 5 cm.Not drawn  
accurately**5(a)**Find the length of the diagonal line  $AC$ .

Give your answer to 2 decimal places

**[3 marks]**


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Answer \_\_\_\_\_ cm

**5(b)**Using your answer to part (a) find the length  $DC$ .

Give your answer to 2 decimal places

**[3 marks]**


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Answer \_\_\_\_\_ cm

**Turn over for next question**

Turn over ►

6

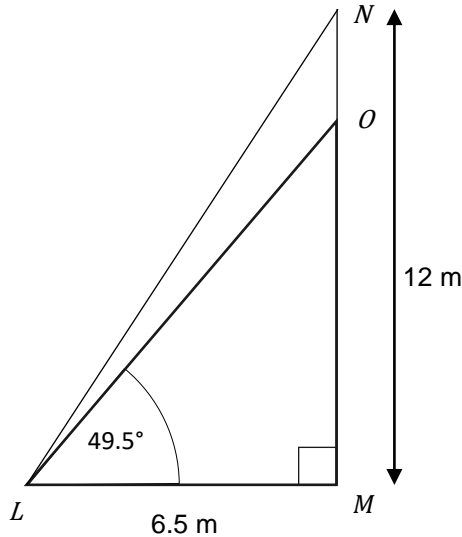
$OL$  and  $NL$  are ladders leaning against a vertical wall  $NM$ .

(Level 6)

$NM$  is 12 m long

$LM$  is 6.5 m.

Angle  $OLM$  is 49.5 degrees.



Not drawn  
accurately

6(a)

Find the length of the line  $ON$ .

Give your answer to 2 decimal places

[3 marks]

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Answer

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6(b)

Find the size of angle  $OLN$  in the diagram.

[3 marks]

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Answer

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End of Questions

END