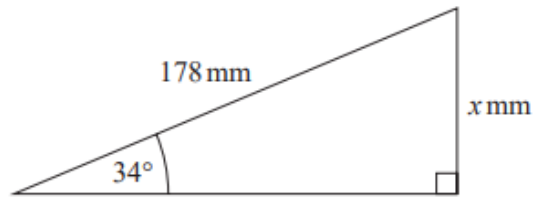


SOHCAHTOA (TRIGONOMETRY)

Pearson Edexcel - Thursday 4 June 2020 - Paper 2 (Calculator) Foundation Tier

1.

25



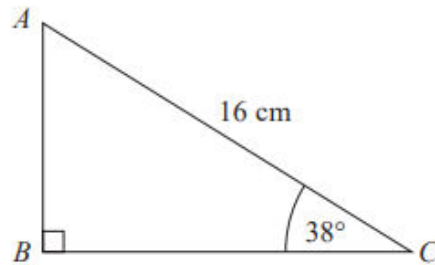
Work out the value of x .

Give your answer correct to 1 decimal place.

(Total for Question 25 is 2 marks)

2.

24 ABC is a right-angled triangle.



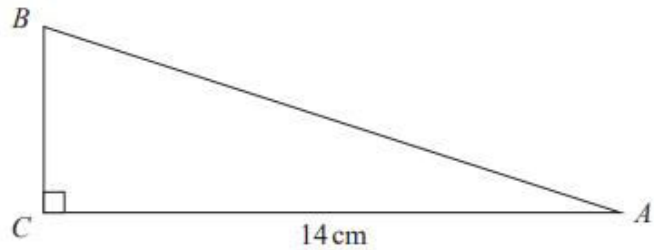
Calculate the length of AB .
Give your answer correct to 2 decimal places.

..... cm

(Total for Question 24 is 2 marks)

3.

25 ABC is a right-angled triangle.



$AC = 14$ cm.
Angle $C = 90^\circ$

size of angle B : size of angle $A = 3 : 2$

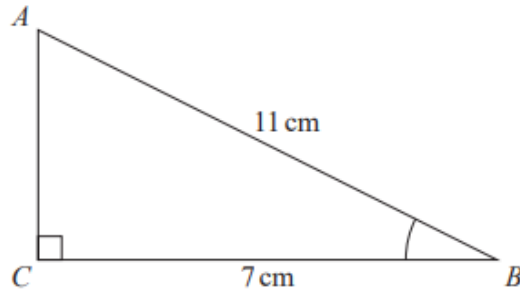
Work out the length of AB .
Give your answer correct to 3 significant figures.

.....cm

(Total for Question 25 is 4 marks)

4.

23 ABC is a right-angled triangle.



- (a) Work out the size of angle ABC .
Give your answer correct to 1 decimal place.

.....
(2)

The length of the side AB is reduced by 1 cm .

The length of the side BC is still 7 cm .

Angle ACB is still 90°

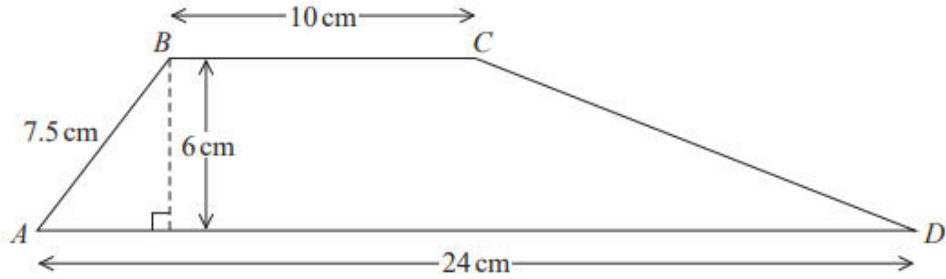
- (b) Will the value of $\cos ABC$ increase or decrease?
You must give a reason for your answer.

.....
.....
(1)

.....
(Total for Question 23 is 3 marks)

5.

22 $ABCD$ is a trapezium.



Work out the size of angle CDA .

Give your answer correct to 1 decimal place.

(Total for Question 22 is 5 marks)

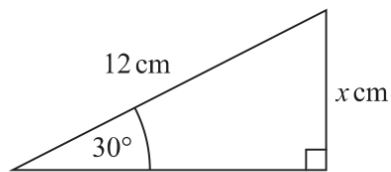
Pearson Edexcel – Specimen 1 - Paper 1 (Non-Calculator) Foundation Tier

6.

26 (a) Write down the exact value of $\cos 30^\circ$

.....
(1)

(b)



Given that $\sin 30^\circ = 0.5$,
work out the value of x .

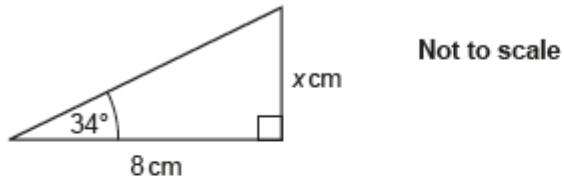
.....
(2)

(Total for Question 26 is 3 marks)

OCR November 09 November 2020- Morning (Calculator) Foundation Tier

7.

18 Here is a right-angled triangle.



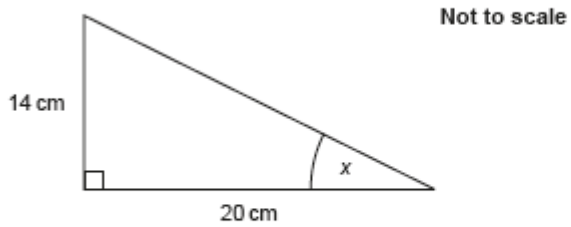
Use trigonometry to work out the value of x .

$x = \dots\dots\dots$ [3]

OCR Tuesday 5 November 2019 – Morning (Calculator) Foundation Tier

8.

13 Here is a right-angled triangle.

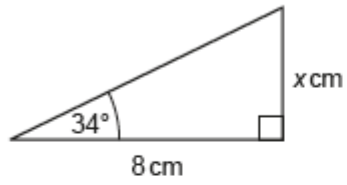


Show that angle x is 35° , correct to the nearest degree.

[3]

9.

18 Here is a right-angled triangle.



Not to scale

Use trigonometry to work out the value of x .

$x = \dots\dots\dots$ [3]

OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

10.

14 (a) Write each of the following ratios in their simplest form.

(i) 8 : 10

(a)(i) : [1]

(ii) 300 ml : 2.1 litres

(ii) : [3]

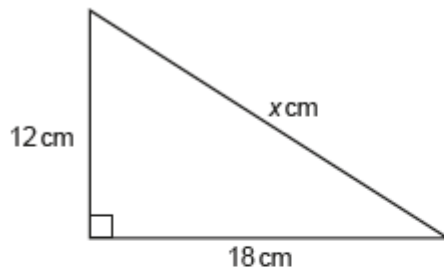
(b) The ratio $\sin 30^\circ : \tan 45^\circ$ can be written in the form $1 : n$.

Find the value of n .

(b) $n =$ [3]

11.

18 Here is a right-angled triangle.



Not to scale

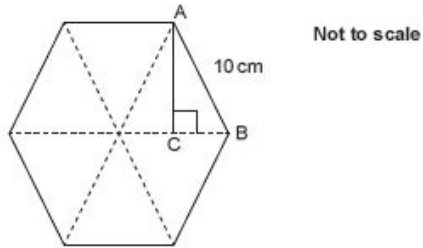
Work out the value of x .

$x = \dots\dots\dots$ [3]

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

12.

- 23 The diagram shows a regular hexagon made from six equilateral triangles. Each side is 10 cm. The angle ACB is a right angle.



- (a) Show that $AC = 8.66\text{cm}$, correct to 3 significant figures. [4]

- (b) (i) Show that the area of triangle ACB is 21.7cm^2 , correct to 3 significant figures. [2]

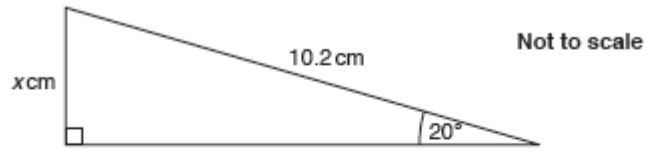
- (ii) Find the area of the hexagon, giving your answer to an appropriate degree of accuracy.

(ii) cm^2 [2]

OCR Monday 12 November 2018 – Morning (Calculator) Foundation Tier

13.

21 Here is a right-angled triangle.



Use trigonometry to work out the value of x .

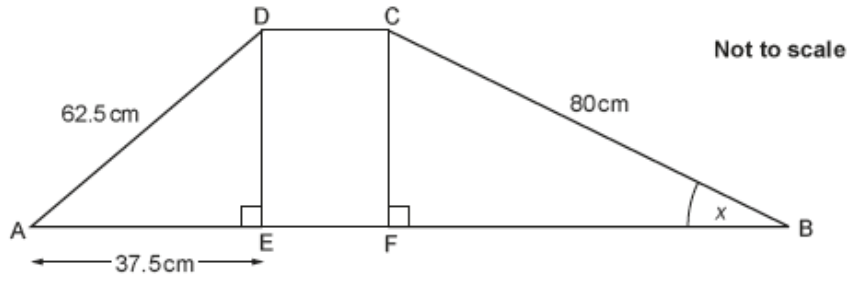
$x = \dots\dots\dots$ [3]

OCR Thursday 2 November 2017– Morning (Calculator) Foundation Tier

14.

- 19 In the diagram below, ABCD is a trapezium.
Length AE is 37.5 cm.
DE = CF

Find the value of angle x .



$x = \dots\dots\dots^\circ$ [6]

OCR Monday 6 November 2017– Morning (Calculator) Foundation Tier

15.

19 The angles in a triangle are in the ratio 1 : 2 : 3.

(a) Show that the triangle is a right-angled triangle.

[2]

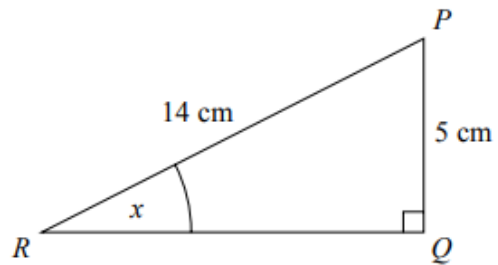
(b) The hypotenuse of the triangle is 15 cm long.

Calculate the length of the shortest side in the triangle.

(b) cm **[4]**

16.

24 PQR is a right-angled triangle.



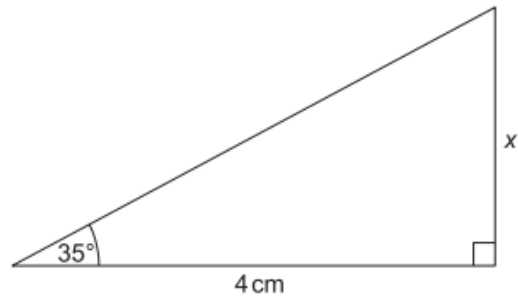
Work out the size of the angle marked x .
Give your answer correct to 1 decimal place.

.....
(Total for Question 24 is 2 marks)

OCR Sample Question Paper 1 – Morning/Afternoon (Calculator) Foundation Tier

17.

20 The diagram shows a right-angled triangle.



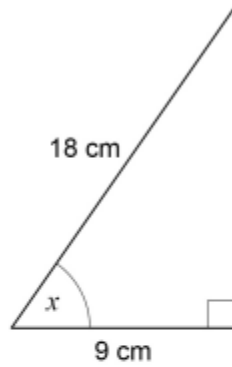
Not to scale

Calculate x .

AQA Tuesday 19 May 2020 – Morning (Non-Calculator) Foundation Tier

18.

27 Use trigonometry to work out the size of angle x .



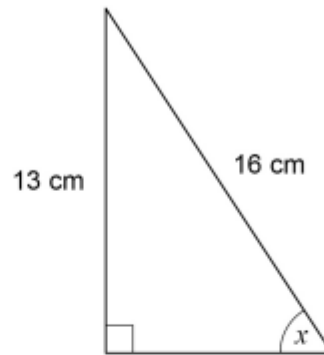
Not drawn accurately

[2 marks]

Answer _____ degrees

19.

30 Here is a right-angled triangle.



Not drawn accurately

Use trigonometry to work out the size of angle x .

[2 marks]

Answer _____ degrees

AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

20.

24 Circle the value of $\cos 30^\circ$

[1 mark]

$\frac{1}{2}$

$\frac{\sqrt{3}}{2}$

0

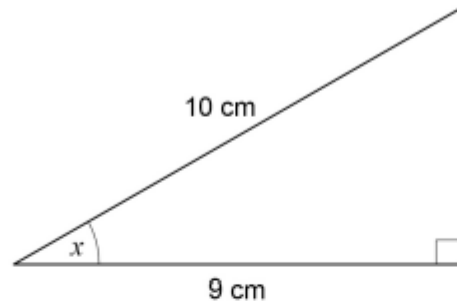
1

AQA Monday 12 November 2018 – Morning (Calculator) Foundation Tier

21.

29 Use trigonometry to work out the size of angle x .

[2 marks]



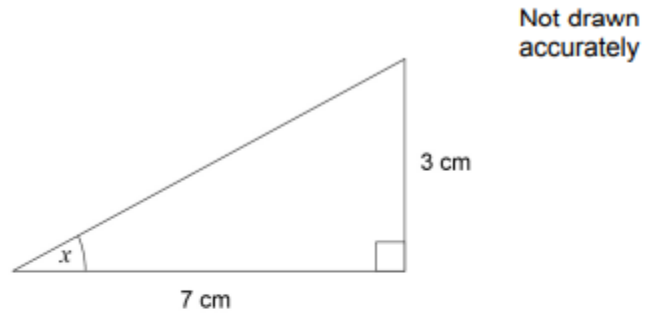
Not drawn accurately

Answer _____ degrees

AQA Monday 6 November 2017 – Morning (Calculator) Foundation Tier

22.

29 Work out the size of angle x .



[2 marks]

Answer _____ degrees

AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

23.

27 Circle the value of $\cos 90^\circ$

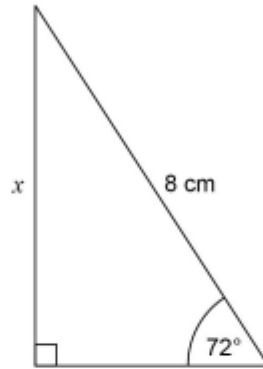
[1 mark]

0 $\frac{1}{2}$ $\frac{\sqrt{3}}{2}$ 1

AQA Thursday 8 June 2017– Morning (Calculator) Foundation Tier

24.

29 Use trigonometry to work out the length x .



Not drawn accurately

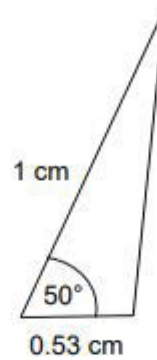
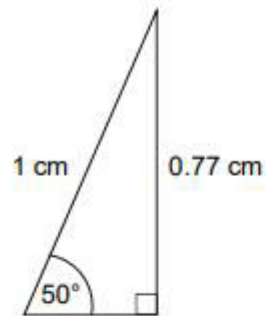
[2 marks]

Answer _____ cm

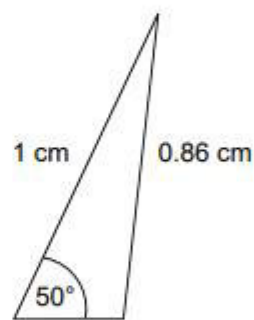
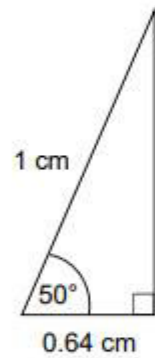
AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

25.

29 Here are sketches of four triangles.



Not drawn accurately



In each triangle

the longest side is **exactly** 1 cm

the other length is given to 2 decimal places.

29 (a) Circle the value of $\cos 50^\circ$ to 2 decimal places.

[1 mark]

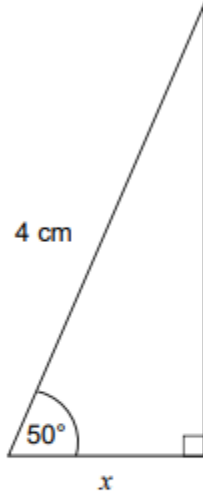
0.77

0.53

0.64

0.86

- 29 (b) Work out the value of x .
Give your answer to 1 decimal place.



Not drawn
accurately

[2 marks]

Answer _____ cm