PYTHAGORAS

Pearson Edexcel – Specimen 2 - Paper 1 (Non-Calculator) Foundation Tier

1.

22 Triangle ABC has perimeter 20 cm.

AB = 7 cm. BC = 4 cm.

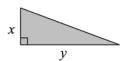
By calculation, deduce whether triangle *ABC* is a right-angled triangle.

(Total for Question 22 is 4 marks)

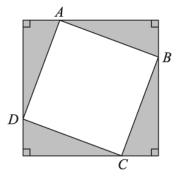
Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

2.

28 Here is a right-angled triangle.



Four of these triangles are joined to enclose the square *ABCD* as shown below.



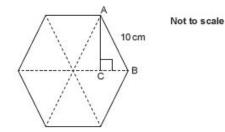
Show that the area of the square *ABCD* is $x^2 + y^2$

(Total for Question 28 is 3 marks)

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

3.

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 = 8.66cm, correct to 3 significant figures.

[4]

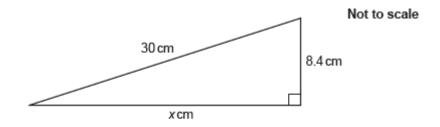
(b) (i) Show that the area of triangle ACB is 21.7 cm², correct to 3 significant figures. [2]

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

OCR Tuesday 6 November 2018 – Morning (Calculator) Foundation Tier

4.

20 Here is a right-angled triangle.



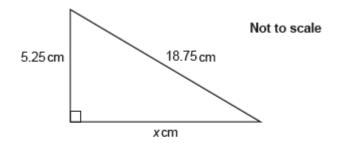
Work out the value of x.

x =[3]

OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier

5.

16 Here is a right-angled triangle.



Work out the value of x.

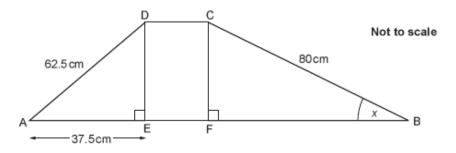
x =[3]

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

6.

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

Find the value of angle x.

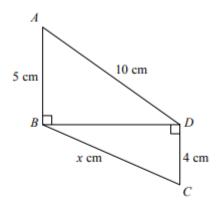


x =° [6]

Pearson Edexcel – Sample Papers - Paper 2 (Calculator) Foundation Tier

7.

28 Triangles ABD and BCD are right-angled triangles.

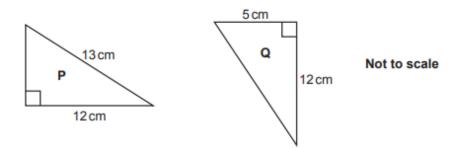


Work out the value of x. Give your answer correct to 2 decimal places.

(Total for Question 28 is 4 marks)

OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

- 8.
- 21 Triangles P and Q are right-angled.



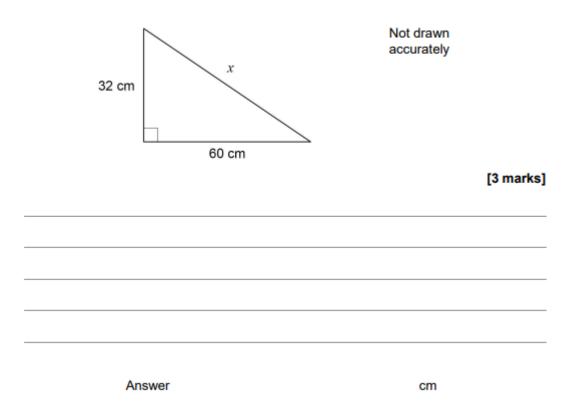
(a) Show that the two shorter sides in triangle P have the same lengths as the two shorter sides in triangle Q. [3]

(b) Explain why the two triangles are congruent.

 [1]

AQA Monday 8 June 2020 – Morning (Calculator) Foundation Tier

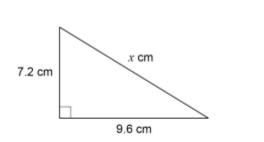
- 9.
- 24 Use Pythagoras' theorem to work out the value of x.

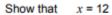


AQA Thursday 8 November 2018 – Morning (Calculator) Foundation Tier

10.

19 Here is a right-angled triangle.







Not drawn accurately

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

11.

