4.9 Pythagoras: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 On a grid a point A is at (2, 3) and a point B is at (8, 11). Work out the straight-line distance AB. Give your answer in whole numbers if appropriate.

(Total for Question 1 is 2 marks)

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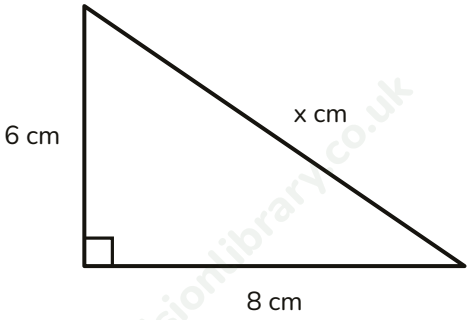
2 A rectangle measures 6 m by 8 m. Work out the length of the diagonal of the rectangle.

(Total for Question 2 is 2 marks)

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3 A right-angled triangle has two shorter sides of length 6 cm and 8 cm.
Calculate the length of the hypotenuse.

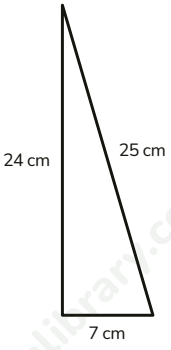
Diagram NOT accurately drawn



(Total for Question 3 is 2 marks)

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4 A triangle has sides of length 7 cm, 24 cm and 25 cm.
Show that this triangle is a right-angled triangle.



(Total for Question 4 is 3 marks)

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Mark scheme · 4.9 Pythagoras: 10-minute Pack

Question 1

use method: difference in x = 6, difference in y = 8, distance = $\sqrt{6^2 + 8^2}$	**M1**
10 units cao	**A1**

Answer: 10 units

Question 2

use method: diagonal^2 = $6^2 + 8^2$ or show 36 + 64	**M1**
10 m cao	**A1**

Answer: 10 m

Question 3

$6^2 + 8^2$ oe (= 100)	**M1**
10 cm cao	**A1**

Answer: 10 cm

Question 4

$7^2 + 24^2$ (= 625)	**M1**
25^2 (= 625)	**M1**
correct conclusion: since $7^2 + 24^2 = 25^2$, the triangle is right-angled cso	**C1**

Answer: $7^2 + 24^2 = 25^2$ (625 = 625), so the triangle is right-angled.

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