HIGHER

7.11 Finding the Area of Any Triangle: 10-minute Pack

Total Marks

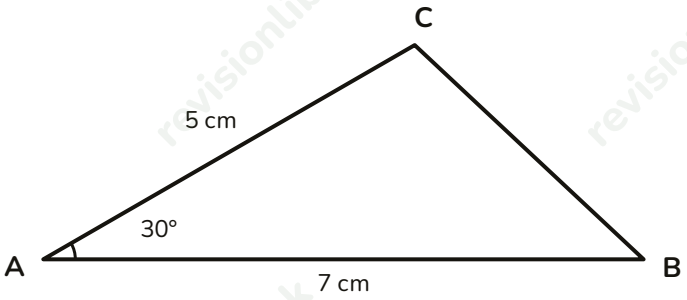
EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Find the area of a triangle with sides 7 cm and 5 cm and included angle 30 degrees.

Diagram NOT accurately drawn

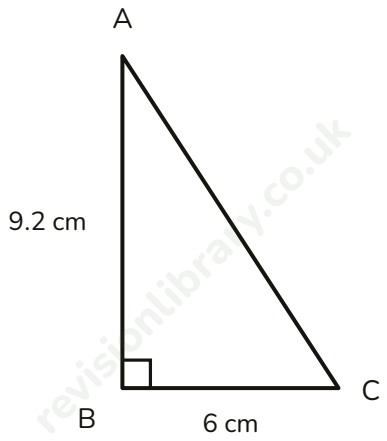


(Total for Question 1 is 1 mark)

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2 Triangle ABC has a right angle at B. AB = 9.2 cm and BC = 6 cm. Calculate the area of triangle ABC.

Diagram NOT accurately drawn

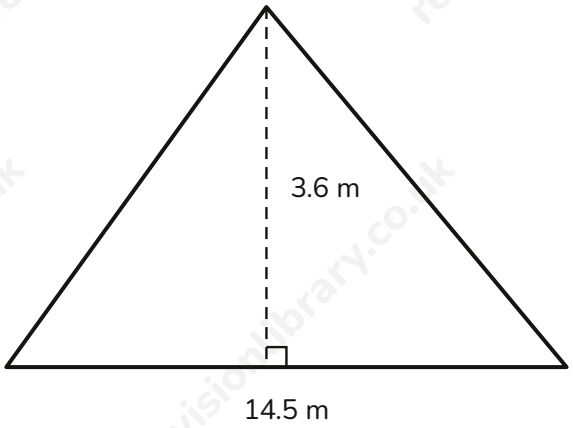


(Total for Question 2 is 2 marks)

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3 A triangular plot of land has a base of 14.5 m and a perpendicular height of 3.6 m. Calculate the area of the plot.

Diagram NOT accurately drawn

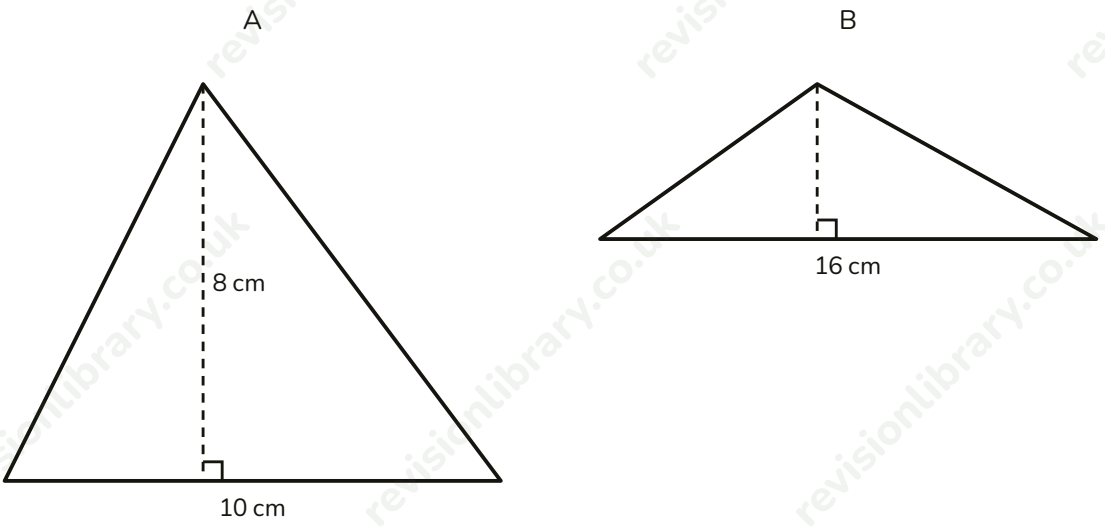


(Total for Question 3 is 2 marks)

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4 Triangle A has a base of 10 cm and a perpendicular height of 8 cm. Triangle B has the same area as Triangle A and a base of 16 cm. Work out the perpendicular height of Triangle B.

Diagram NOT accurately drawn



(Total for Question 4 is 3 marks)

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Mark scheme · 7.11 Finding the Area of Any Triangle: 10-minute Pack

Question 1

8.75 cm² cao	**B1**

Answer: 8.75 cm^2

Question 2

1/2 x 9.2 x 6 oe	**M1**
27.6 cao (cm^2)	**A1**

Answer: 27.6 cm^2

Question 3

1/2 x 14.5 x 3.6 oe	**M1**
26.1 cao (m^2)	**A1**

Answer: 26.1 m^2

Question 4

area of A = 1/2 x 10 x 8 (=40)	**M1**
40 = 1/2 x 16 x h oe	**M1**
h = 5 cm cao	**A1**

Answer: 5 cm

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