

GCSE Mathematics

H

Area of a Triangle

Higher Tier | Grades 6-7

Total Marks	Time	Questions
60	60 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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Edexcel-style questions**Q1**

Grade 6

Edexcel style

Find the area of the triangle. Give your answer correct to 3 significant figures.

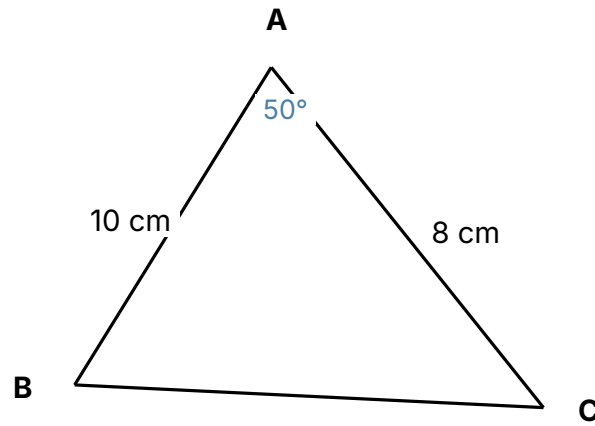


Diagram NOT accurately drawn

Answer _____

Q2

Grade 7

Edexcel style

Triangle ABC has $AB = 8\text{ cm}$ and angle $A = 45^\circ$. The area of the triangle is 24 cm^2 . Find the length of AC. Give your answer correct to 3 significant figures.

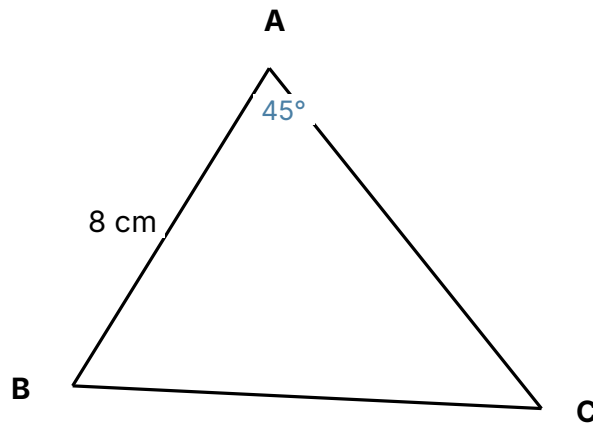


Diagram NOT accurately drawn

Answer _____

Q3

Grade 7

Edexcel style

Triangle ABC has $AB = 7\text{ cm}$ and $AC = 8\text{ cm}$. The area of the triangle is 20 cm^2 . Find the size of angle A. Give your answer correct to 1 decimal place.

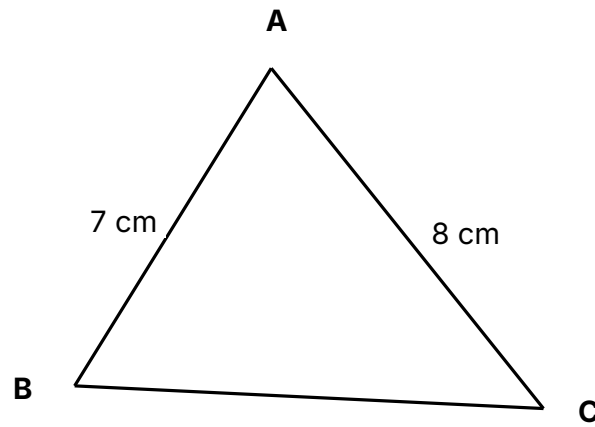


Diagram NOT accurately drawn

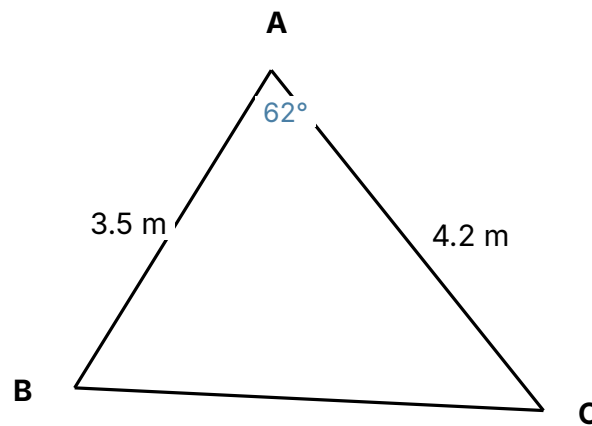
Answer _____

Q4

Grade 7

Edexcel style

A triangular sail has two edges of length 4.2 m and 3.5 m, with an angle of 62° between them. Find the area of the sail. Give your answer correct to 3 significant figures.



Answer _____

teachably

[3 marks]

Q5

Grade 7

Edexcel style

A quadrilateral ABCD is split into two triangles by the diagonal BD. Triangle ABD has $AB = 6$ cm, $AD = 8$ cm and angle $A = 50^\circ$. Triangle CBD has $CB = 7$ cm, $CD = 9$ cm and angle $C = 60^\circ$. Find the total area of the quadrilateral. Give your answer correct to 3 significant figures.

Answer _____

teachably

[3 marks]

AQA-style questions**Q6**

Grade 6

AQA style

Find the area of the triangle. Give your answer correct to 3 significant figures.

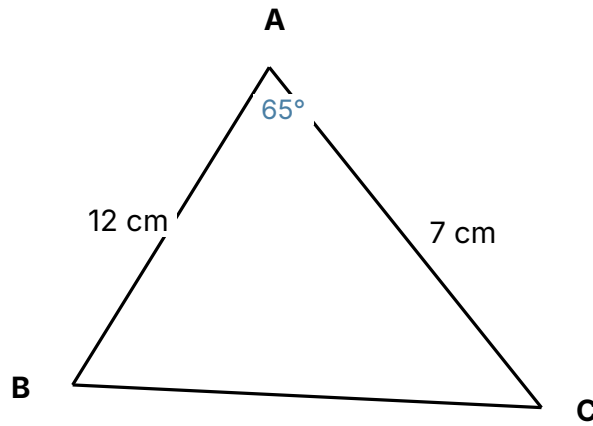


Diagram NOT accurately drawn

Answer _____

Q7

Grade 7

AQA style

Triangle ABC has $AB = 10$ cm and angle $A = 60^\circ$. The area of the triangle is 30 cm^2 . Find the length of AC. Give your answer correct to 3 significant figures.

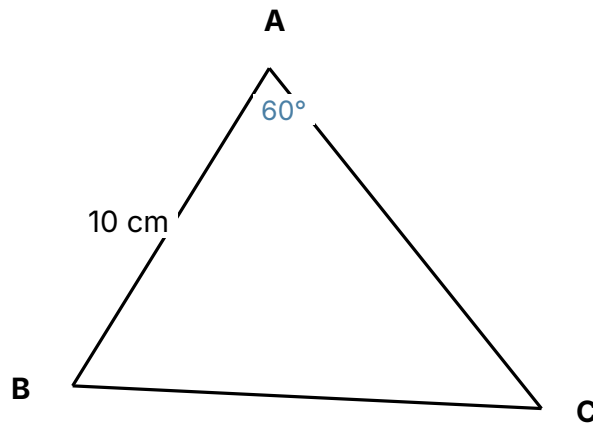


Diagram NOT accurately drawn

Answer _____

Q8

Grade 7

AQA style

Triangle ABC has $AB = 10\text{ cm}$ and $AC = 9\text{ cm}$. The area of the triangle is 35 cm^2 . Find the size of angle A. Give your answer correct to 1 decimal place.

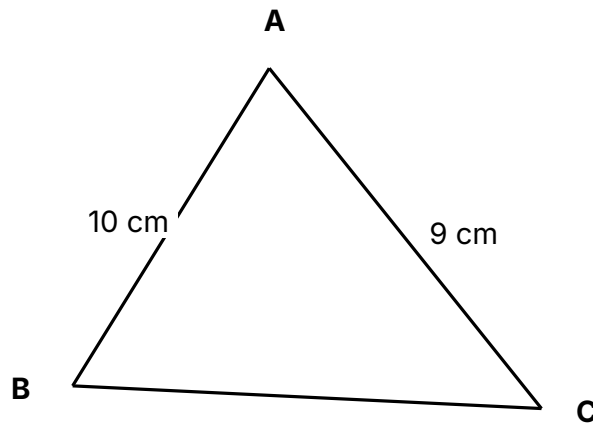


Diagram NOT accurately drawn

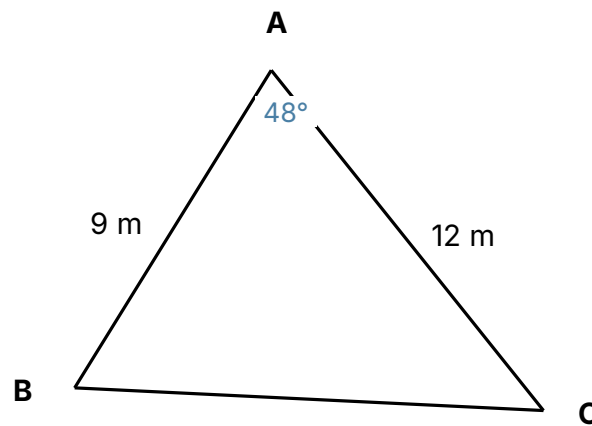
Answer _____

Q9

Grade 7

AQA style

A triangular garden has two sides of length 12 m and 9 m, with an angle of 48° between them. Find the area of the garden. Give your answer correct to 3 significant figures.



Answer _____

teachably

[3 marks]

Q10

Grade 7

AQA style

A quadrilateral ABCD is split into two triangles by the diagonal BD. Triangle ABD has $AB = 5$ cm, $AD = 9$ cm and angle $A = 55^\circ$. Triangle CBD has $CB = 8$ cm, $CD = 6$ cm and angle $C = 48^\circ$. Find the total area of the quadrilateral. Give your answer correct to 3 significant figures.

Answer _____

teachably

[3 marks]

OCR-style questions

Q11

Grade 6

OCR style

Find the area of the triangle. Give your answer correct to 3 significant figures.

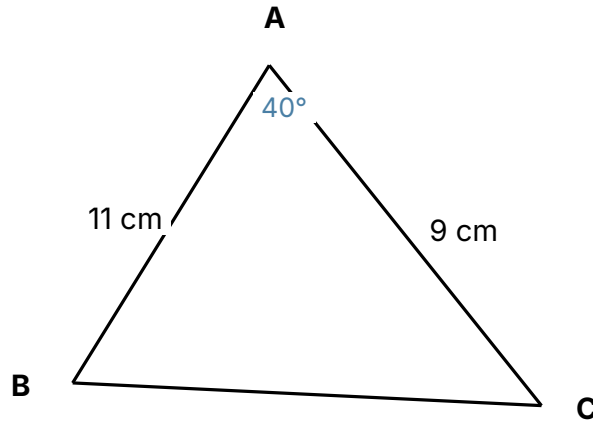


Diagram NOT accurately drawn

Answer _____

Q12

Grade 7

OCR style

Triangle ABC has $AB = 6$ cm and angle $A = 55^\circ$. The area of the triangle is 18 cm^2 . Find the length of AC. Give your answer correct to 3 significant figures.

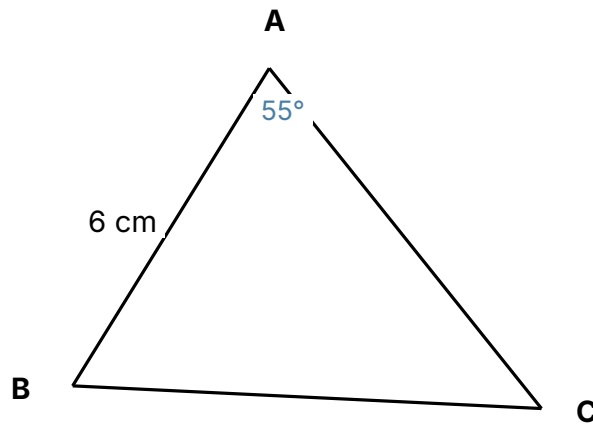


Diagram NOT accurately drawn

Answer _____

Q13

Grade 7

OCR style

Triangle ABC has $AB = 6\text{ cm}$ and $AC = 12\text{ cm}$. The area of the triangle is 27 cm^2 . Find the size of angle A. Give your answer correct to 1 decimal place.

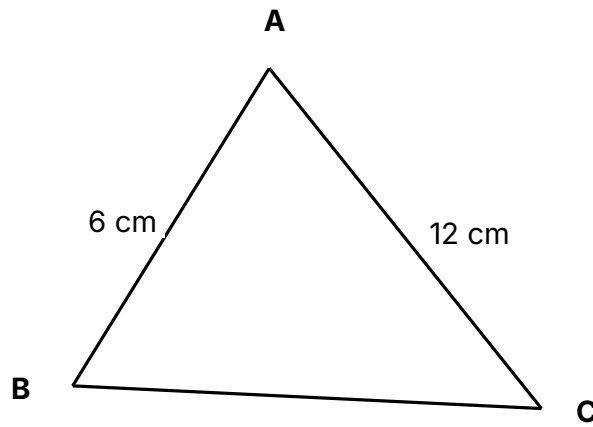


Diagram NOT accurately drawn

Answer _____

Q14

Grade 7

OCR style

A triangular field has two sides of length 65 m and 48 m, with an angle of 72° between them. Find the area of the field. Give your answer correct to 3 significant figures.

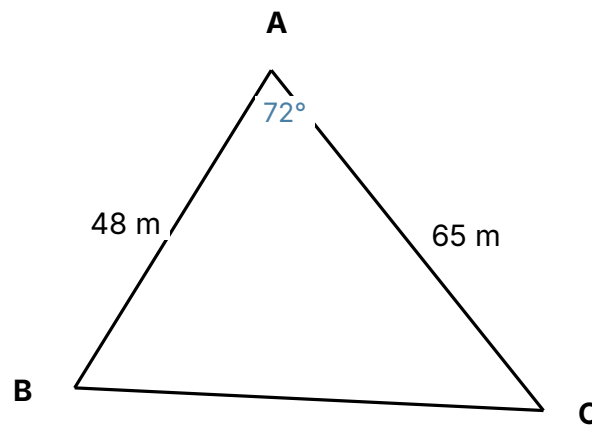


Diagram NOT accurately drawn

Answer _____

teachably

[3 marks]**Q15**

Grade 7

OCR style

A quadrilateral ABCD is split into two triangles by the diagonal BD. Triangle ABD has AB = 10 cm, AD = 7 cm and angle A = 65° . Triangle CBD has CB = 6 cm, CD = 9 cm and angle C = 40° . Find the total area of the quadrilateral. Give your answer correct to 3 significant figures.

Answer _____

teachably

[3 marks]

Teachably-style questions**Q16**

Grade 6

Teachably style

Find the area of the triangle. Give your answer correct to 3 significant figures.

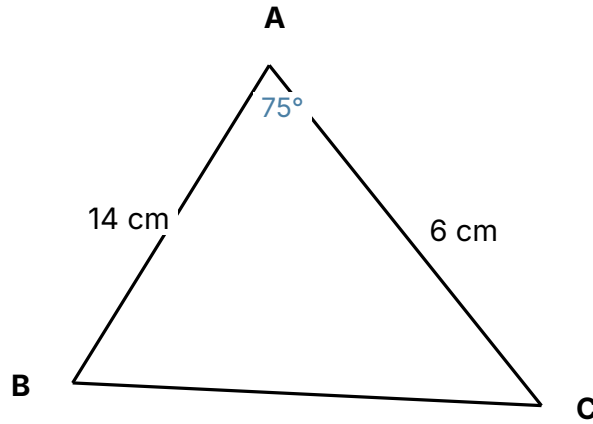


Diagram NOT accurately drawn

Answer _____

teachably

[3 marks]

Q17

Grade 7

Teachably style

Triangle ABC has $AB = 9\text{ cm}$ and angle $A = 70^\circ$. The area of the triangle is 45 cm^2 . Find the length of AC. Give your answer correct to 3 significant figures.

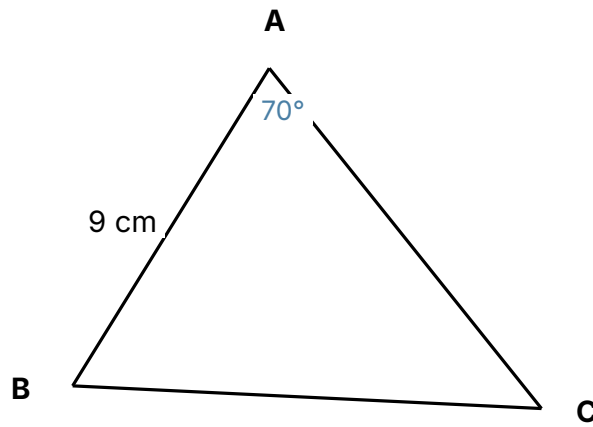


Diagram NOT accurately drawn

Answer _____

teachably

[3 marks]

Q18

Grade 7

Teachably style

Triangle ABC has $AB = 11\text{ cm}$ and $AC = 10\text{ cm}$. The area of the triangle is 42 cm^2 . Find the size of angle A. Give your answer correct to 1 decimal place.

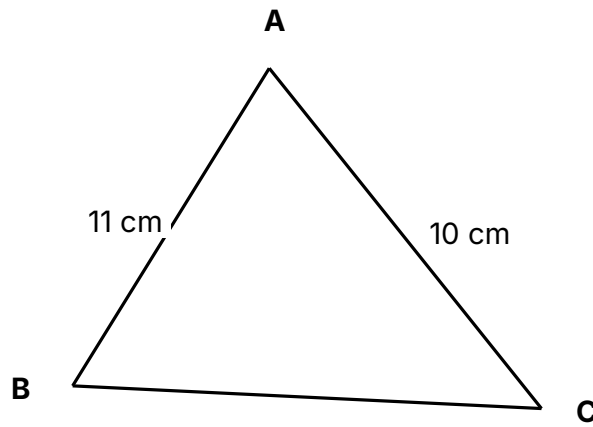


Diagram NOT accurately drawn

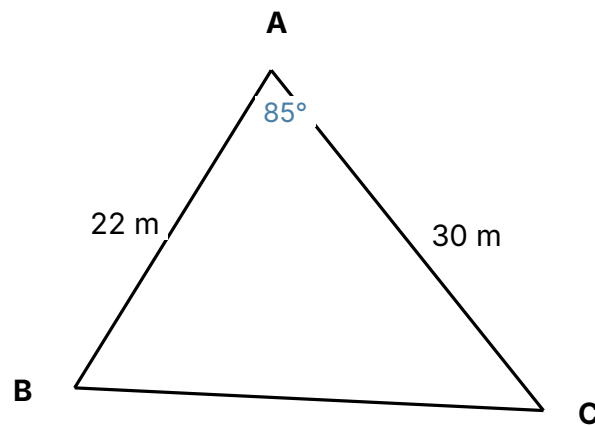
Answer _____

Q19

Grade 7

Teachably style

A triangular plot of land has two sides of length 30 m and 22 m, with an angle of 85° between them. Find the area of the plot. Give your answer correct to 3 significant figures.



Answer _____

teachably

[3 marks]

Q20

Grade 7

Teachably style

A quadrilateral ABCD is split into two triangles by the diagonal BD. Triangle ABD has $AB = 8$ cm, $AD = 11$ cm and angle $A = 70^\circ$. Triangle CBD has $CB = 9$ cm, $CD = 5$ cm and angle $C = 58^\circ$. Find the total area of the quadrilateral. Give your answer correct to 3 significant figures.

Answer _____

teachably

[3 marks]

END OF PAPER

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