

GCSE Mathematics

F/H

Right-Angled Trigonometry (SOHCAHTOA)

Grades 5-7

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 5

Edexcel style

Find the length of side x . Give your answer correct to 3 significant figures.

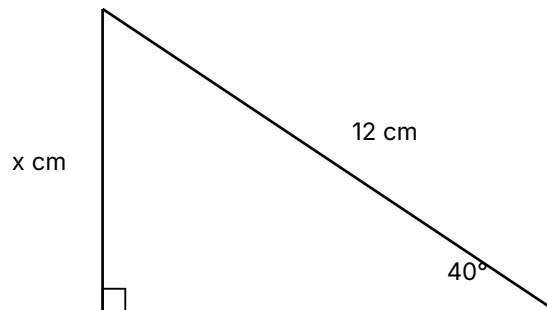


Diagram NOT accurately drawn

Answer _____

Q2

Grade 5

Edexcel style

Find the length of side x . Give your answer correct to 3 significant figures.

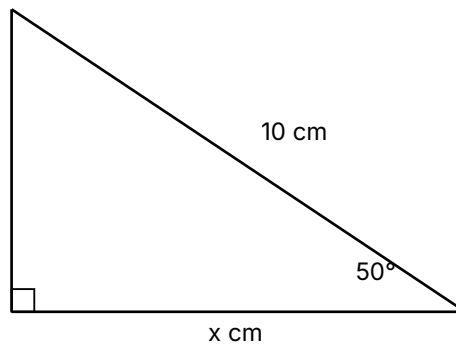


Diagram NOT accurately drawn

Answer _____

Q3

Grade 6

Edexcel style

Find the length of side x . Give your answer correct to 3 significant figures.

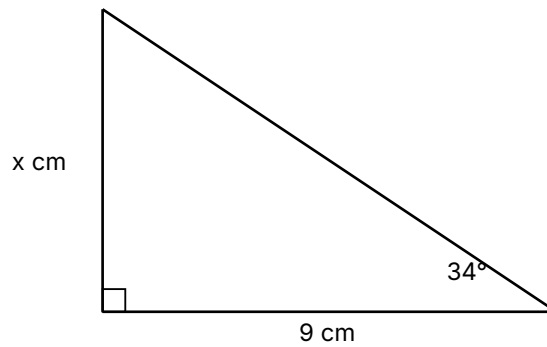


Diagram NOT accurately drawn

Answer _____

Q4

Grade 6

Edexcel style

Find the size of angle θ . Give your answer correct to 1 decimal place.

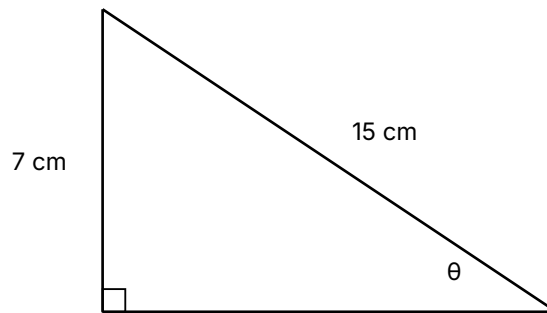


Diagram NOT accurately drawn

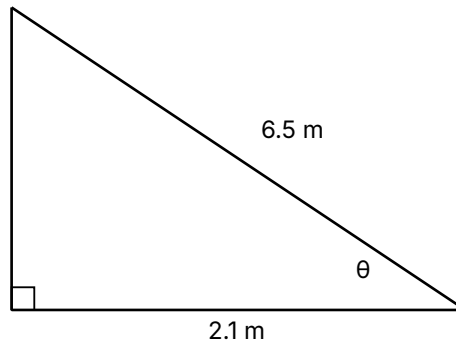
Answer _____

Q5

Grade 7

Edexcel style

A ladder of length 6.5 m leans against a vertical wall. The base of the ladder is 2.1 m from the wall. Find the angle the ladder makes with the ground. Give your answer correct to 1 decimal place.

*Diagram NOT accurately drawn*

Answer _____

AQA-style questions**Q6**

Grade 5

AQA style

Find the length of side x . Give your answer correct to 3 significant figures.

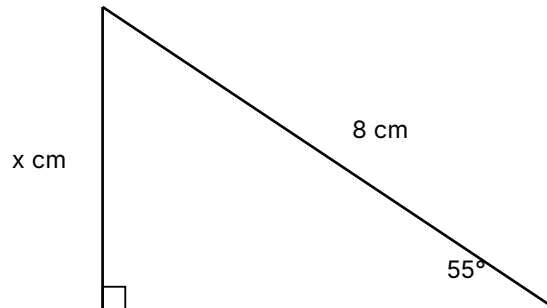


Diagram NOT accurately drawn

Answer _____

Q7

Grade 5

AQA style

Find the length of side x . Give your answer correct to 3 significant figures.

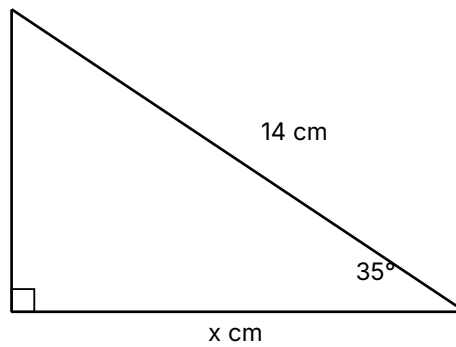


Diagram NOT accurately drawn

Answer _____

Q8

Grade 6

AQA style

Find the length of side x . Give your answer correct to 3 significant figures.

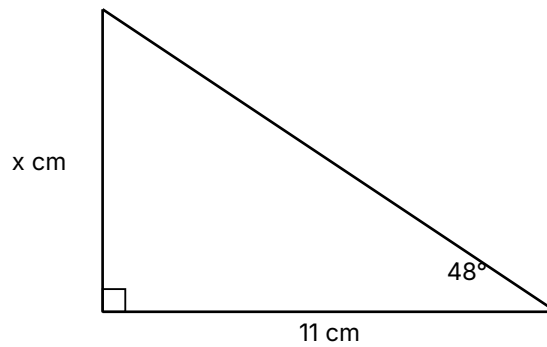


Diagram NOT accurately drawn

Answer _____

Q9

Grade 6

AQA style

Find the size of angle θ . Give your answer correct to 1 decimal place.

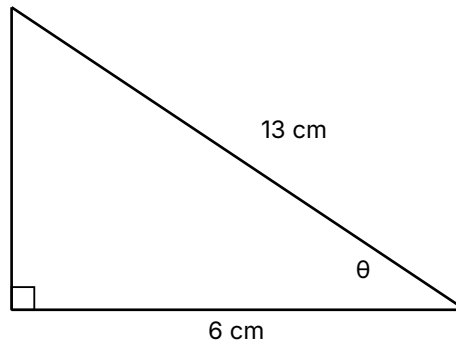


Diagram NOT accurately drawn

Answer _____

Q10

Grade 7

AQA style

From a point on the ground 25 m from the base of a tower, the angle of elevation to the top of the tower is 38° . Find the height of the tower. Give your answer correct to 3 significant figures.

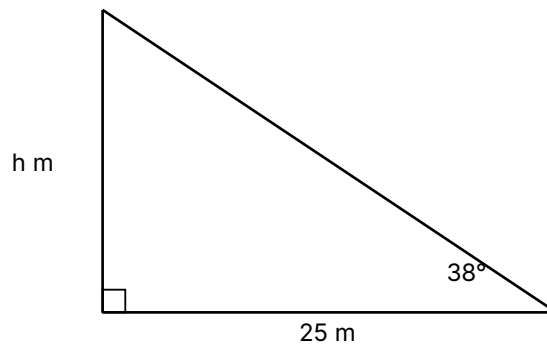


Diagram NOT accurately drawn

Answer _____

OCR-style questions**Q11**

Grade 5

OCR style

Find the length of side x . Give your answer correct to 3 significant figures.

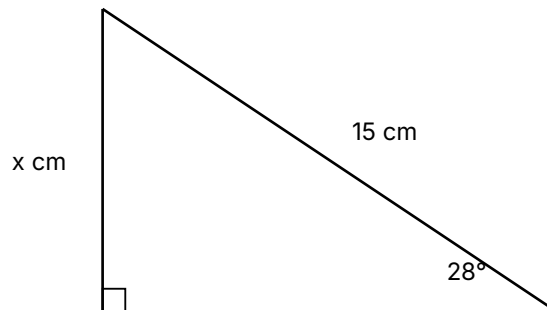


Diagram NOT accurately drawn

Answer _____

Q12

Grade 5

OCR style

Find the length of side x . Give your answer correct to 3 significant figures.

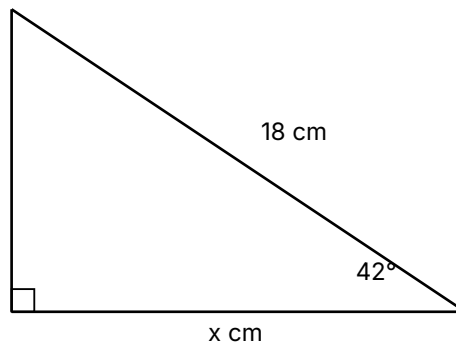


Diagram NOT accurately drawn

Answer _____

Q13

Grade 6

OCR style

Find the length of side x . Give your answer correct to 3 significant figures.

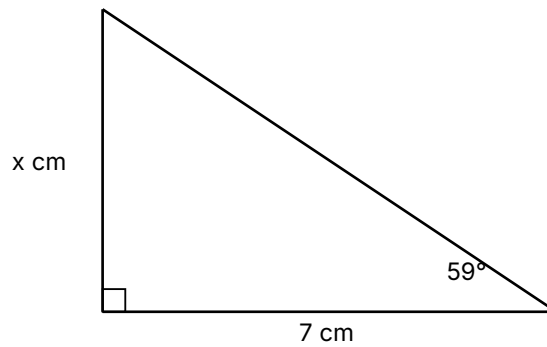


Diagram NOT accurately drawn

Answer _____

Q14

Grade 7

OCR style

Find the size of angle θ . Give your answer correct to 1 decimal place.

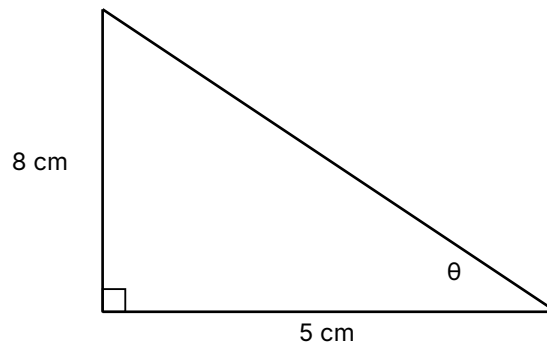


Diagram NOT accurately drawn

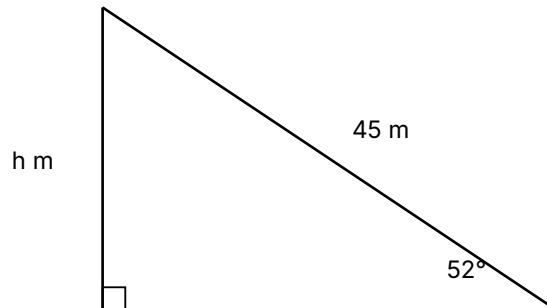
Answer _____

Q15

Grade 7

OCR style

A kite is flying at the end of a 45 m string. The string makes an angle of 52° with the horizontal ground. Find the height of the kite above the ground. Give your answer correct to 3 significant figures.

*Diagram NOT accurately drawn*

Answer _____

Teachably-style questions**Q16**

Grade 5

Teachably style

Find the length of side x . Give your answer correct to 3 significant figures.

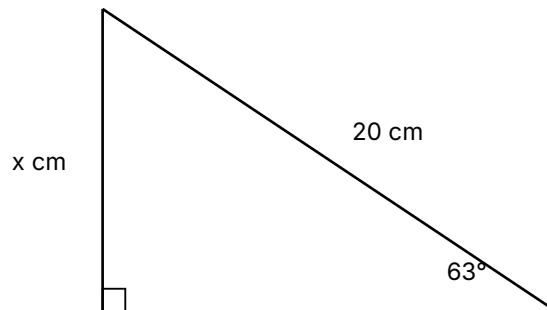


Diagram NOT accurately drawn

Answer _____

teachably**[3 marks]**

Q17

Grade 5

Teachably style

Find the length of side x . Give your answer correct to 3 significant figures.

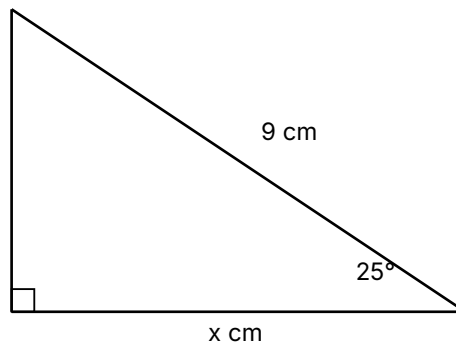


Diagram NOT accurately drawn

Answer _____

teachably

[3 marks]

Q18

Grade 6

Teachably style

Find the length of side x . Give your answer correct to 3 significant figures.

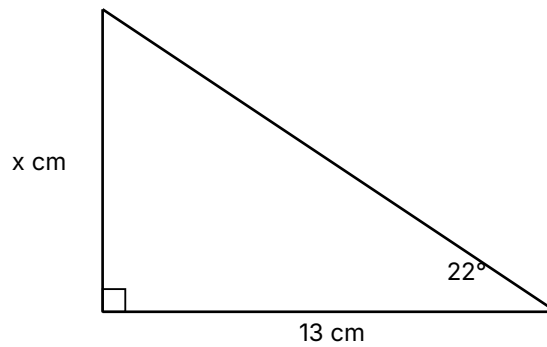


Diagram NOT accurately drawn

Answer _____

teachably

[3 marks]

Q19

Grade 7

Teachably style

Find the size of angle θ . Give your answer correct to 1 decimal place.

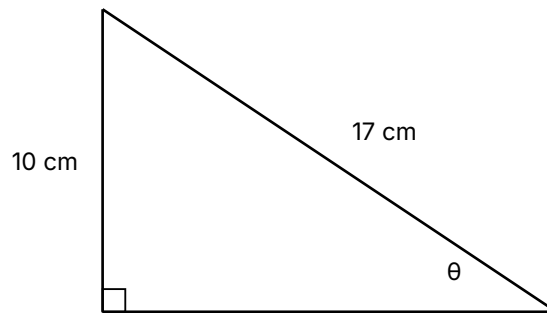


Diagram NOT accurately drawn

Answer _____

teachably

[3 marks]

Q20

Grade 7

Teachably style

A ramp rises 1.2 m over a horizontal distance of 8 m. Find the angle of inclination of the ramp. Give your answer correct to 1 decimal place.

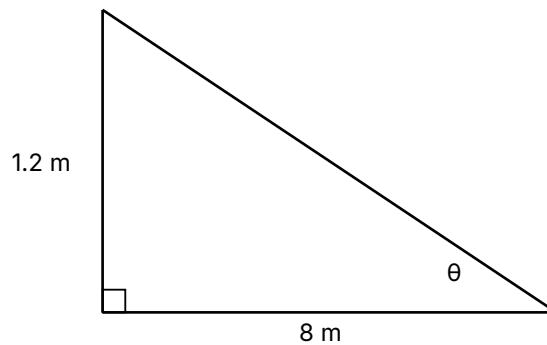


Diagram NOT accurately drawn

Answer _____

teachably

[3 marks]**END OF PAPER****Want help from an expert maths tutor?**

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