



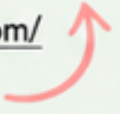
JP Maths

Revision



Attempt the paper
before watching the
solutions!

[https://www.youtube.com/
@JPMathsRevision](https://www.youtube.com/@JPMathsRevision)



FOUNDATION / HIGHER TIER

SOHCAHTOA



INSTRUCTIONS

- Use **black ink** or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.



INFORMATION

- The marks for **each** question are shown in brackets– *use this as a guide as to how much time to spend on each question.*



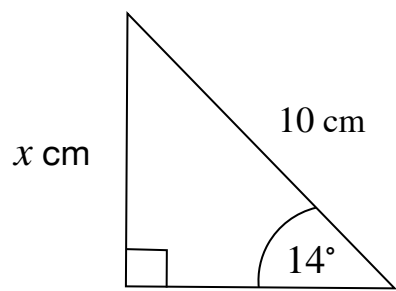
ADVICE

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.



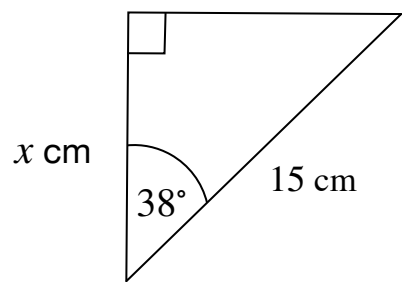
You've got this! ❤️

1. Find the size of the side marked x .



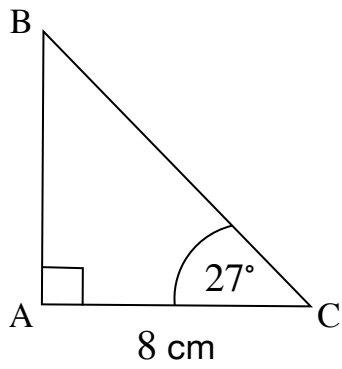
..... cm
(Total for Question 1 is 2 marks)

2. Find the size of the side marked x .



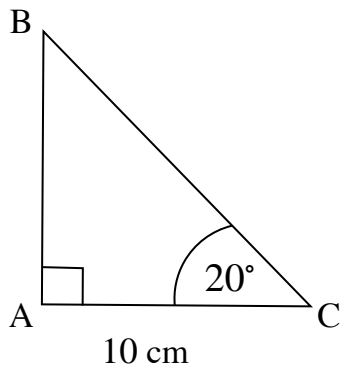
..... cm
(Total for Question 2 is 2 marks)

3. Find the size of the side AB.



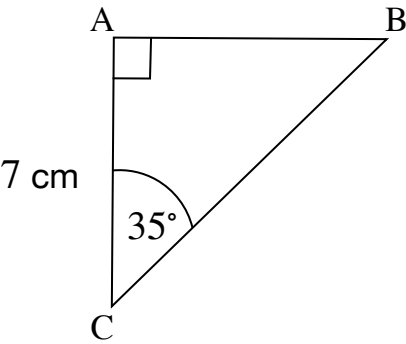
..... cm
(Total for Question 3 is 2 marks)

4. Find the size of the side BC.



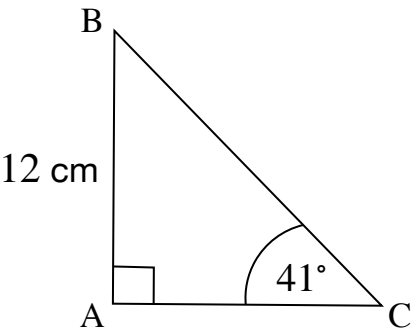
..... cm
(Total for Question 4 is 2 marks)

5. Find the size of the side marked BC.



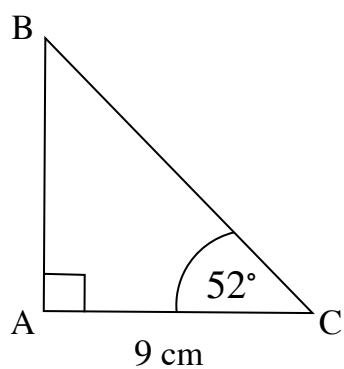
..... cm
(Total for Question 5 is 2 marks)

6. Find the size of the side AC.



..... cm
(Total for Question 6 is 2 marks)

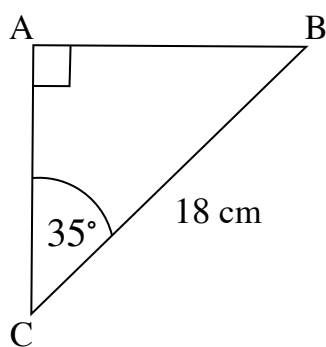
7. Find the size of the side BC.



cm

.....
(Total for Question 7 is 2 marks)

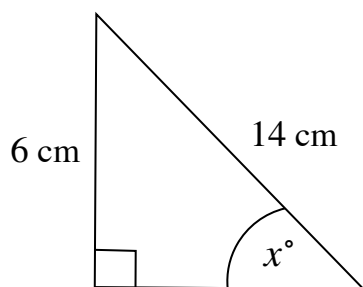
8. Find the length of AB.



cm

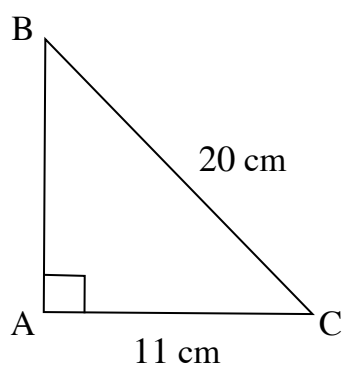
.....
(Total for Question 8 is 2 marks)

9. In a right-angled triangle, find the size of the angle marked x° .



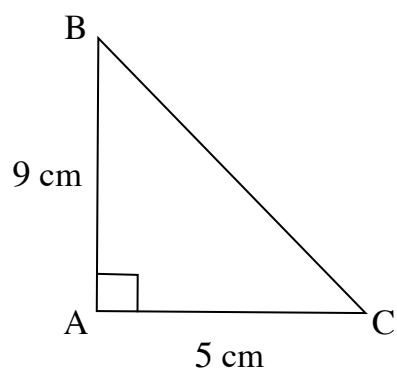
.....
(Total for Question 9 is 2 marks)

10. In a right-angled triangle, find the size of the angle ACB.



.....
(Total for Question 10 is 2 marks)

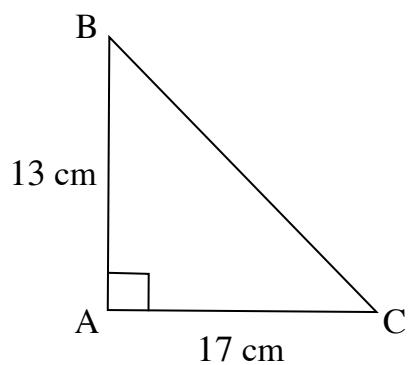
11. In a right-angled triangle, find the size of the angle ACB



◦

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(Total for Question 11 is 2 marks)

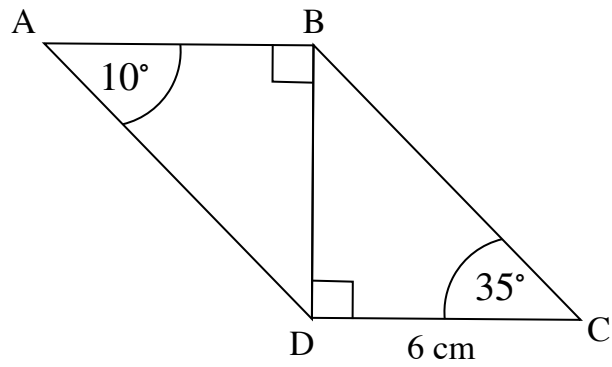
12. In a right-angled triangle, find the size of the angle ABC.



◦

.....
(Total for Question 12 is 2 marks)

13. A shape is made from two right-angled triangles joined together.
- Find the total length AD.



cm

.....

(Total for Question 13 is 3 marks)

14. A wheelchair ramp is 4.5 m long.
- The angle between the ramp and the ground is 18°.
- Calculate the vertical height reached by the ramp.

m

.....

(Total for Question 14 is 3 marks)

- 15.** A tree casts a shadow 7.8 m long.

The angle between the ground and the line from the tip of the shadow to the top of the tree is 41° .

Calculate the height of the tree.

m

.....
(Total for Question 15 is 3 marks)

- 16.** A ladder is leaning against a wall.

The ladder is 9 m long.

The angle between the ladder and the ground is 68°

A painter climbs to a point that is $\frac{2}{3}$ of the way up the ladder.

How high above the ground is the painter?

m

.....
(Total for Question 16 is 3 marks)

17. A playground slide is 5.8 m long.

The angle between the slide and the ground is 32° .

A child climbs halfway up the slide.

Calculate how high above the ground the child is.

m

.....
(Total for Question 17 is 3 marks)

18. A rope is attached to the top of a vertical post.

The rope is 12 m long.

It makes an angle of 54° with the ground.

Calculate the height of the post.

m

.....
(Total for Question 18 is 3 marks)
