



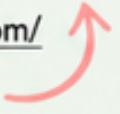
# JP Maths

## Revision



Attempt the paper  
before watching the  
solutions!

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



FOUNDATION / HIGHER TIER

# Pythagoras



## 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  $\pi$  button, take the value of  $\pi$  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

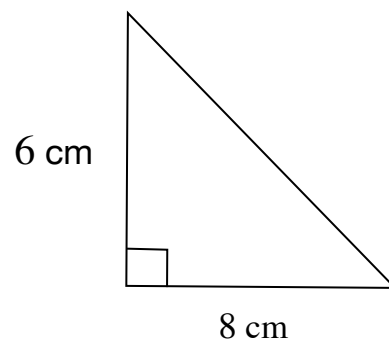
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.



*You've got this!*

1. A right-angled triangle has sides of 6 cm and 8 cm.

Calculate the length of the hypotenuse.



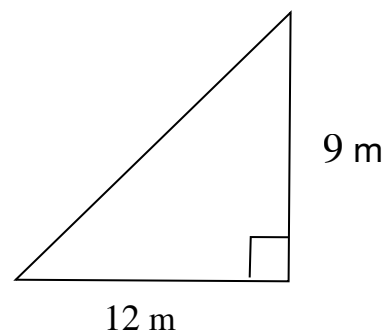
.....  
cm

**(Total for Question 1 is 2 marks)**

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2. A right-angled triangle has sides of 9 m and 12 m.

Calculate the length of the hypotenuse.



.....  
m

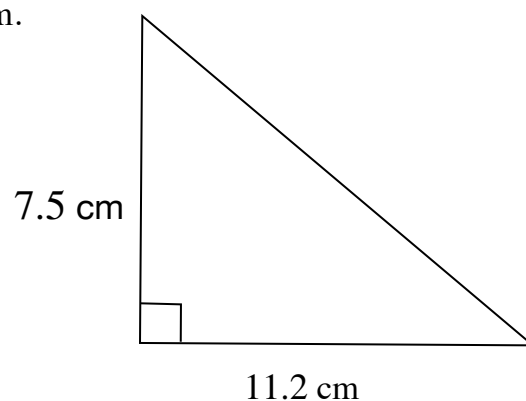
**(Total for Question 2 is 2 marks)**

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3. A right-angled triangle has sides of 7.5 cm and 11.2 cm.

Calculate the length of the hypotenuse.

Give your answer to 1 decimal place.

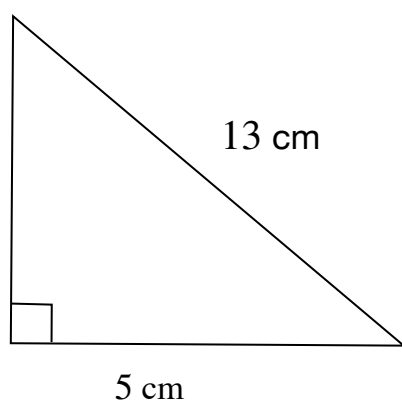


..... cm

**(Total for Question 3 is 2 marks)**

4. A right-angled triangle has a hypotenuse of 13 cm and one other side of 5 cm.

Calculate the missing side.

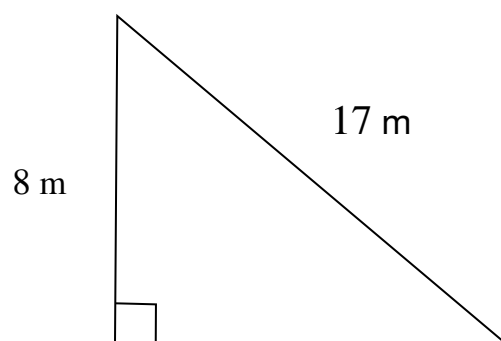


..... cm

**(Total for Question 4 is 2 marks)**

5. A right-angled triangle has a hypotenuse of 17 m and one other side of 8 m.

Calculate the missing side.



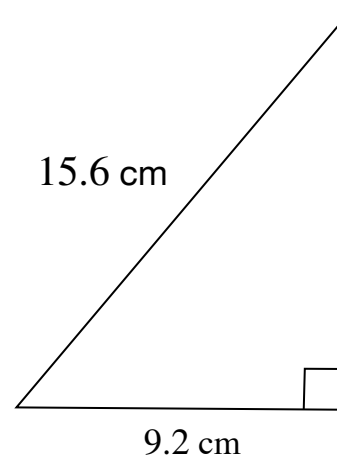
m

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

6. A right-angled triangle has a hypotenuse of 15.6 cm and one other side of 9.2 cm.

Calculate the missing side.

Give your answer to 1 decimal place.



cm

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

7. A ladder is leaning against a wall.

The ladder is 10 m long.

The foot of the ladder is 6 m from the wall.

How high up the wall does the ladder reach?

.....  
m

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

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8. A rectangle is 14 cm long and 9 cm wide.

Calculate the length of the diagonal.

Give your answer to 1 decimal place.

.....  
cm

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

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9. A rectangle has a diagonal of 20 cm.

Its width is 12 cm.

Calculate the length of the rectangle.

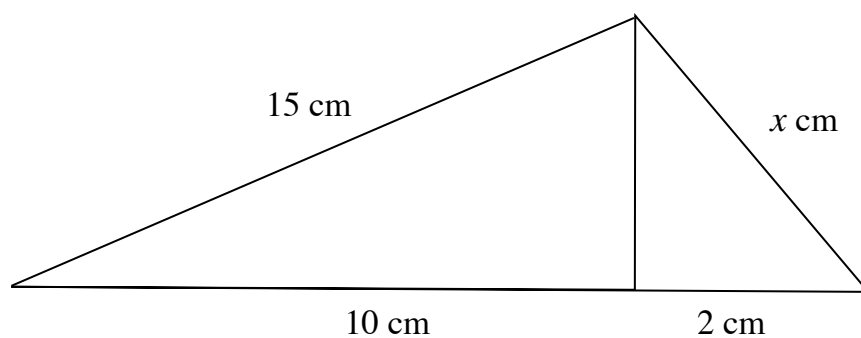
.....  
cm

(Total for Question 9 is 2 marks)

10. A shape is made from two right-angled triangles joined together.

Calculate the length of the side marked  $x$ .

Give your answer to 1 decimal place.



.....  
cm

(Total for Question 10 is 3 marks)

**11.** A triangle has a base of 14 cm.

The two equal sloping sides are each 13 cm.

Calculate the area of the triangle.

.....  
cm<sup>2</sup>

**(Total for Question 11 is 3 marks)**

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