

My signature confirms that I will not discuss the content of the test with anyone.

Signature: _

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.
- Sign the declaration.
- Answer all questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided there may be more space than you need.
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and your answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- Calculators may not be used.
- Take the value of π to be 3.14

Information

- The total mark for this section is 16.
- The marks for each question are shown in brackets

 use this as a quide as to how much time to spend on each question.
- This sign shows where marks will be awarded for showing your checks.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.





Turn over 🕨



Please note that these worked solutions have neither been provided nor approved by Pearson Education and may not necessarily constitute the only possible solutions. Please refer to the original mark schemes for full guidance.

Any writing in blue indicates what must be written in order to answer the questions and get the marks. The worked solutions have been designed to show the smallest amount of work which needs to be done to answer the question.

Anything written in green in a cloud doesn't have to be written in the exam.

Anything written in orange in a rectangle doesn't have to be written in the exam and is there to show what should be put into a calculator or measured using a ruler or protractor.

If you find any mistakes or have any requests or suggestions, please send an email to curtis@cgmaths.co.uk





Turn over ►

2 Here is a formula

$$h = \sqrt{a^2 - b^2}$$

Find the value of h when

$$a = 10$$
 and $b = 8$

The order of operations, BIDMAS, needs to be followed. The brackets need to be done first. Inside these the indices need to be done first.
10² = 10 x 10 = ... Also work out 8². Then these can be subtracted from each other. Work out the square root of the result, which is basically asking what number squared, or multiplied by itself, gives the result



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