

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

| | CANDIDATE NAME | | |
|---------|--------------------|--|---------------------|
| | CENTRE NUMBER | CANDIDATE NUMBER | |
| * 1 9 | MATHEMATICS | | 0581/11 |
| 2 5 2 7 | Paper 1 (Core) | October/Nove | mber 2010 1 hour |
| 7 6 2 | Candidates answ | ver on the Question Paper. | |
| 2 6 1 * | Additional Materia | ials: Electronic calculator Geometrical instruments Mathematical tables (optional) Tracing paper (optional) | |

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

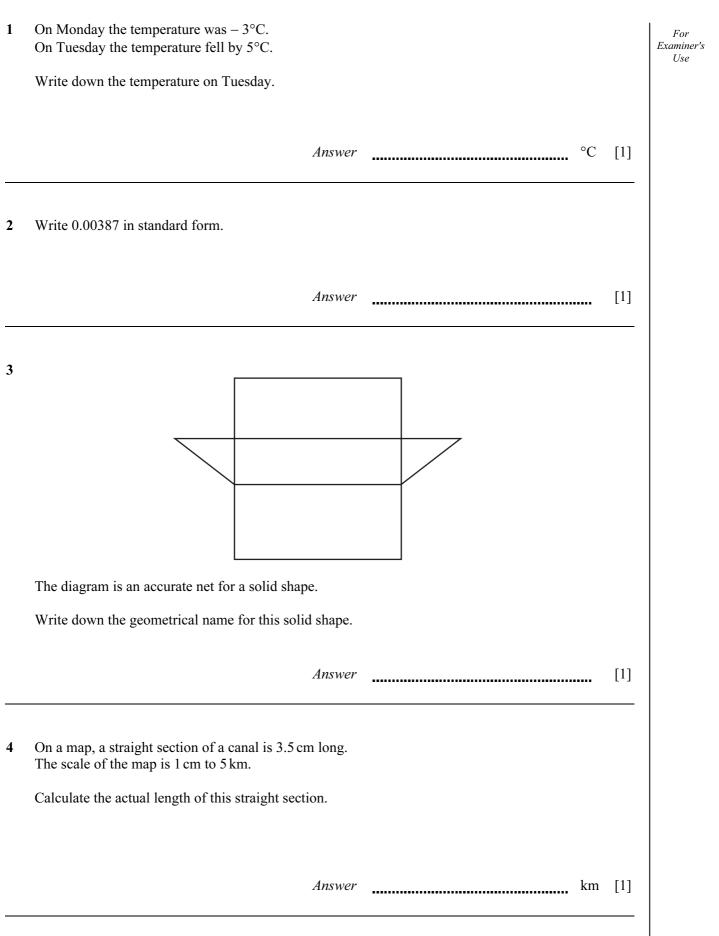
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

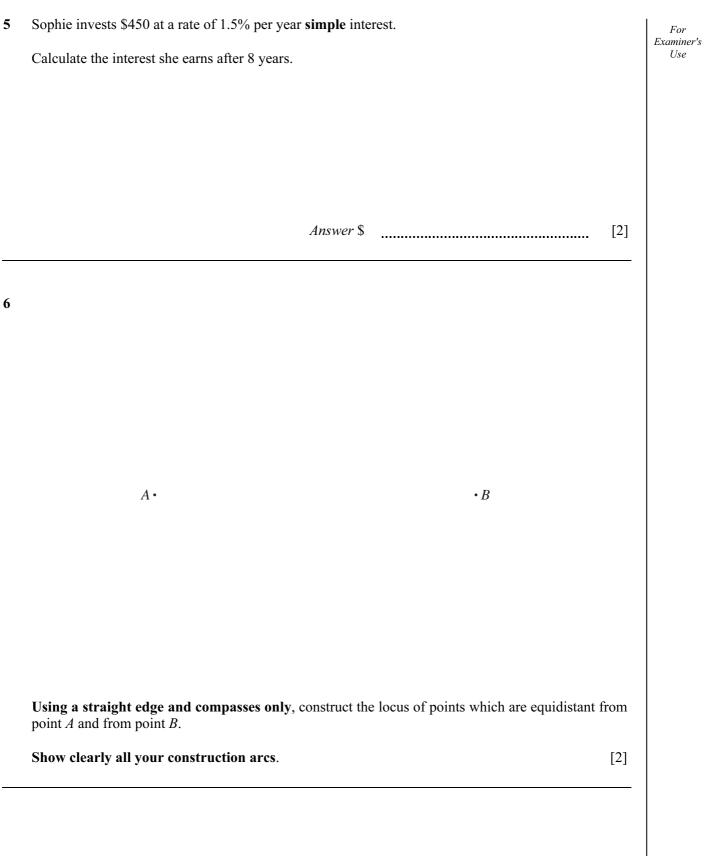
At the end of the examination, fasten all your work securely together.

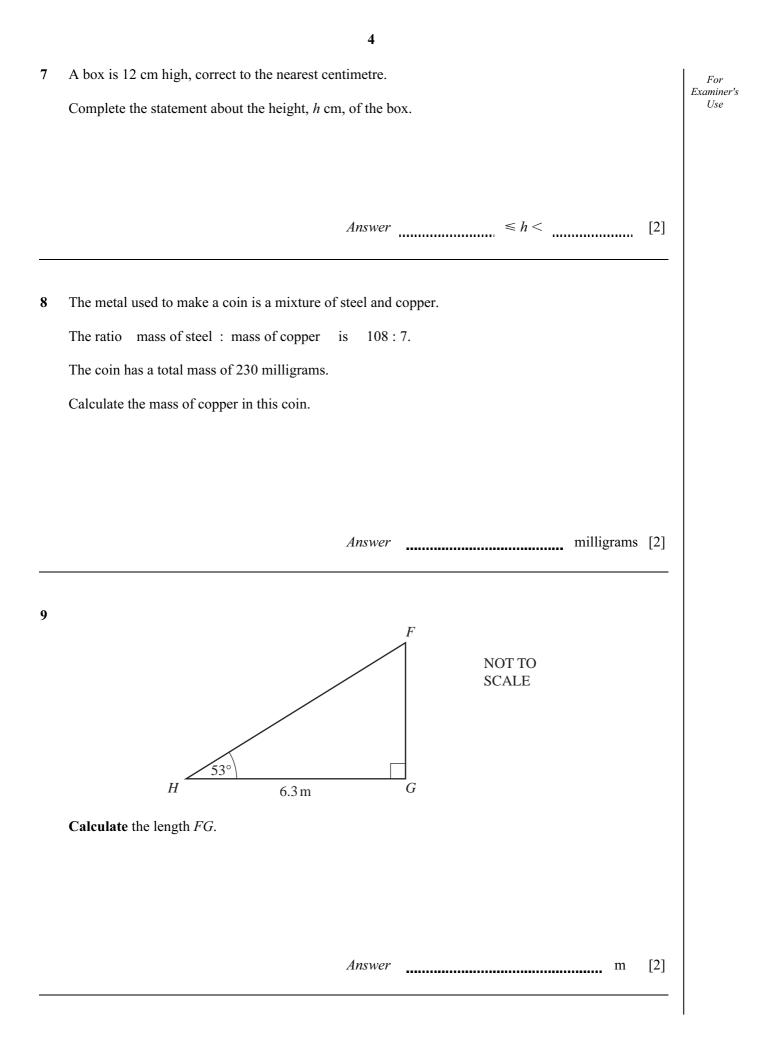
The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

This document consists of ${\bf 11}$ printed pages and ${\bf 1}$ blank page.

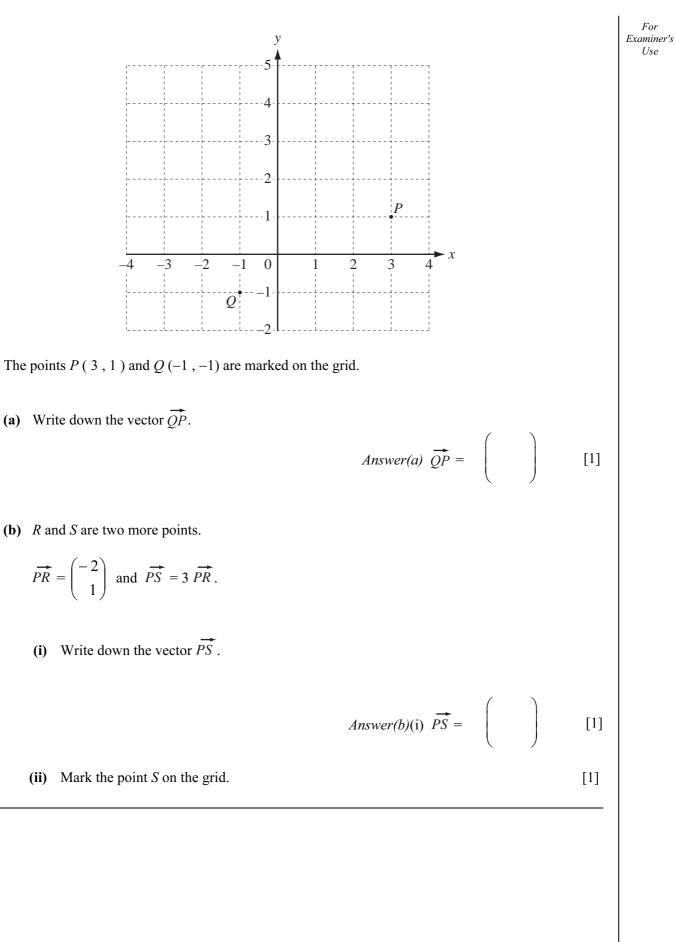








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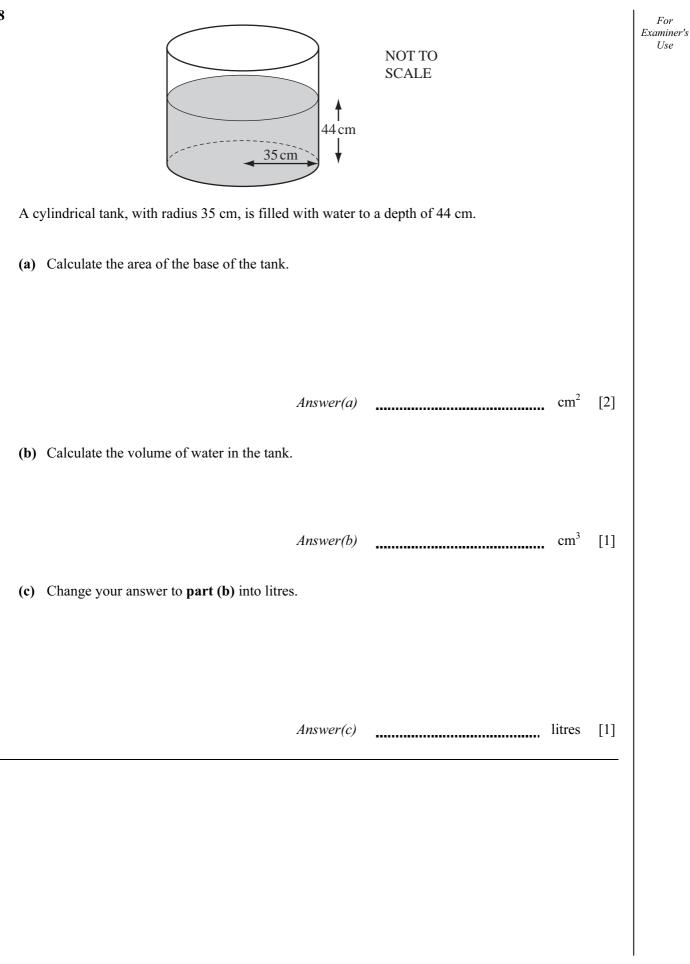
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| 14 | | | For Examiner's Use |
|----|--|-----|--------------------------|
| | (a) 8^0 | | Use |
| | Answer(a) | [1] | |
| | (b) $(x^5)^2$ | | |
| | Answer(b) | [1] | |
| | | [1] | |
| | (c) $p^{-3} \div p^4$ | | |
| | Answer(c) | [1] | |
| | | | |
| 15 | A tourist changes \$900 to euros (\in) when the exchange rate is $\in 1 = $ \$1.356. | | |
| | Calculate the amount he receives. Give your answer correct to 2 decimal places. | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Answer € | [3] | |
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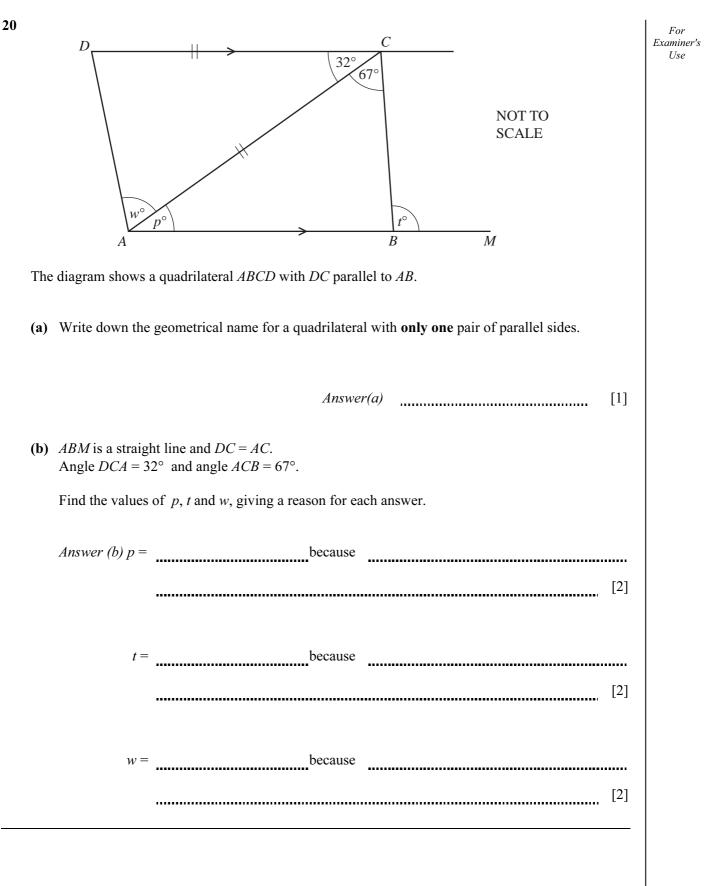
| 16 | (a) | Write down all the common factors of 30 and 42. | | For Examiner's Use |
|----|-----|---|-----|--------------------------|
| | (b) | <i>Answer(a)</i> | [2] | |
| | | | | |
| | | Answer(b) | [2] | |
| 17 | | non has ten cards, numbered 1 to 10. chooses a card at random. | | |
| | Wri | ite down the probability that the number on the card is | | |
| | (a) | 8, | | |
| | | Answer(a) | [1] | |
| | (b) | 12, | | |
| | | Answer(b) | [1] | |
| | (c) | an odd number, | | |
| | | Answer(c) | [1] | |
| | (d) | not a multiple of 3. | | |
| | | Answer(d) | [1] | |

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Answer(b) [3]



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