

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

| | CANDIDATE NAME | | | | | | | | |
|------------|--|---|-------------------------|--|--|--|--|--|--|
| | CENTRE NUMBER | CANDIDATE NUMBER | | | | | | | |
| * 2 | MATHEMATICS | | | | | | | | |
| 493042725* | Paper 1 (Core) | | May/June 2011 1 hour | | | | | | |
| | Candidates answer on the Question Paper. | | | | | | | | |
| | Additional Materia | Ils: 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 8 printed pages.



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| 1 | (a) Write down ten thousand and seventy three in figures. | | | | | | | | | For |
|---|---|--|-------------|------------|-----------|-------------------|--------------|-----|-------------------|-----|
| | (b) | $Answer(a)$ Work out $13 + 5 \times 4 - 2$. Write down all the steps of your working. | | | | | | [1] | Examiner's Use | |
| | | | | | | | Answer(b) | | [1] | |
| 2 | Write | e dow | n the next | t term in | each sequ | ience. | | | | |
| | (a) | 1, | 2, | 4, | 8, | 16, | | | [1] | |
| | (b) 2 | 23, | 19, | 15, | 11, | 7, | | | [1] | |
| 3 | Write down the time and date which is 90 hours after 20 30 on May 31st. | | | | | | | | | |
| | | | | | | | Answer Time | | | |
| | | | | | | | Date | | [2] | |
| 4 | Facto | orise (| completely | у. | 2xy | – 4 <i>yz</i> | | | | |
| | | | | | | | Answer | | [2] | |
| 5 | Insert $<$ or $>$ or $=$ in the spaces provided to make correct statements. | | | | | | | | | |
| | (a) | $\frac{3}{11}$ | | 0.2 | 273 | | | | [1] | |
| | (b) | 1.1 | | 11 | 1% | | | | [1] | |
| 6 | Make | e x th | e subject o | of the for | mula. | $y = \frac{x}{3}$ | + 5 | | | |
| | | | | | | | Answer $x =$ | | [2] | |

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| 13 | (a) | Find the value of x when $\frac{18}{24} = \frac{27}{x}$. | | | For Examiner' Use |
|----|------------|--|--------------|--------|-------------------------|
| | (b) | Show that $\frac{2}{3} \div 1\frac{1}{6} = \frac{4}{7}$. | nswer(a) x = | | [1] |
| | | Write down all the steps in your working. | | | |
| | | Answer(b) | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | [2] |
| 14 | (a) | A drinking glass contains 55 cl of water. Write 55 cl in litres. | | | |
| | | | Answer(a) | litres | [1] |
| | (b) | The mass of grain in a sack is 35 kg. The grain is divided equally into 140 bags. | | | |
| | | Calculate the mass of grain in each bag. Give your answer in grams. | | | |
| | | | | | |
| | | | | | |
| | | | Answer(b) | g | [2] |
| 15 | (a) | Write 67.499 correct to the nearest integer. | | | |
| | | | Answer(a) | | [1] |
| | (b) | Write 0.003040506 correct to 3 significant figures. | | | |
| | | | Answer(b) | | [1] |
| | (c) | d = 56.4, correct to 1 decimal place. | | | |
| | | Write down the lower bound of <i>d</i> . | | | |
| | | | Answer(c) | | [1] |

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