

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

| | CANDIDATE NAME | | | | |
|-------------|--|---|--|--|--|
| | CENTRE NUMBER | | CANDIDATE NUMBER | | |
| * 1 7 2 | MATHEMATICS Paper 1 (Core) | | 0580/13 May/June 2010 | | |
| 7 2 7 9 4 3 | , | r on the Question Paper | 1 hour | | |
| 5 | Candidates answer on the Question Paper. | | | | |
| 591* | Additional Materials | s: 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.

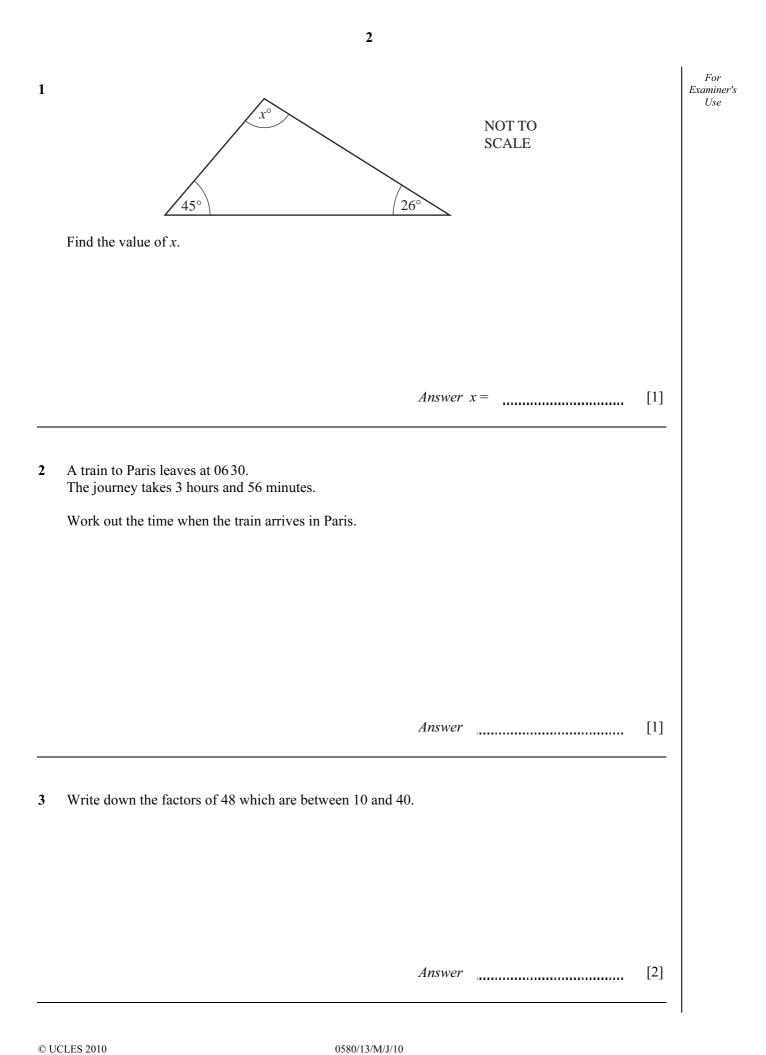
At the end of the examination, fasten all your work securely together.

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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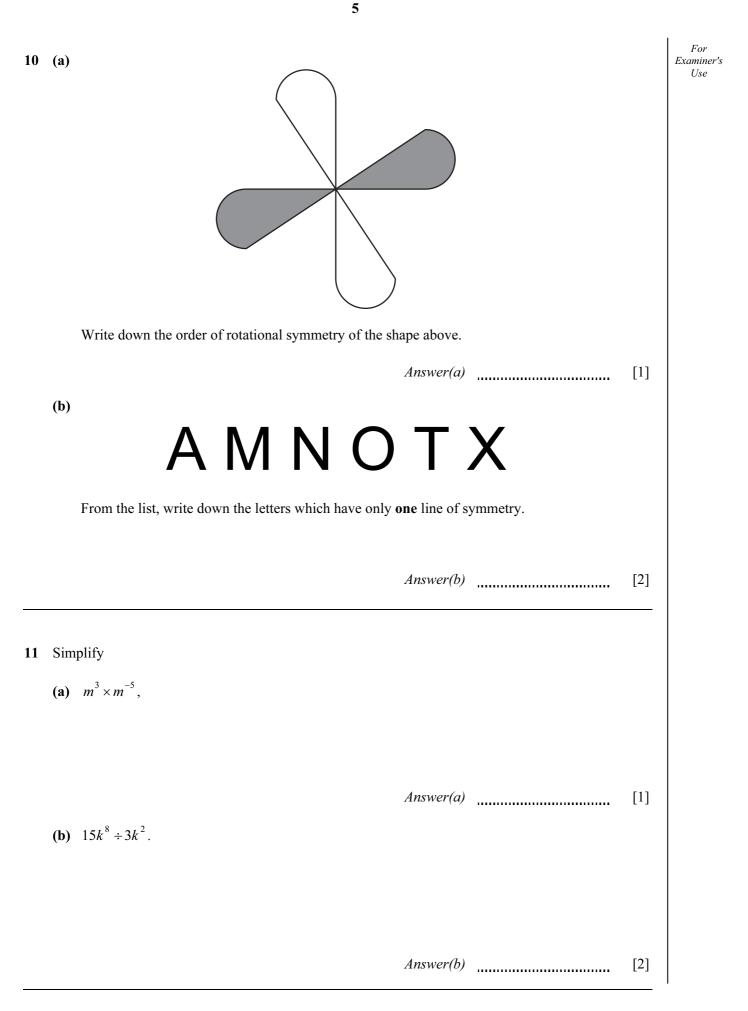


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| 4 | | < = > | For Examiner's Use |
|---|-----------------------------------|---|--------------------------|
| | For each part, choose a symbol f | from those above to make a correct statement. | |
| | (a) $\frac{5}{9}$ 0.55 | | [1] |
| | (b) 66% $\frac{2}{3}$ | [| 1] |
| 5 | | s reduced from \$21000 to \$16800. | _ |
| | Calculate the reduction as a perc | centage of the original price. | |
| | | | |
| | | | |
| | | | |
| | | Answer % | [2] |
| 6 | Write down the equation of the l | line, parallel to $y = 3x + 5$, which passes through the point $(0, -2)$ |). |
| | | | |
| | | | |
| | | | |
| | | Answer | [2] |
| | | | |

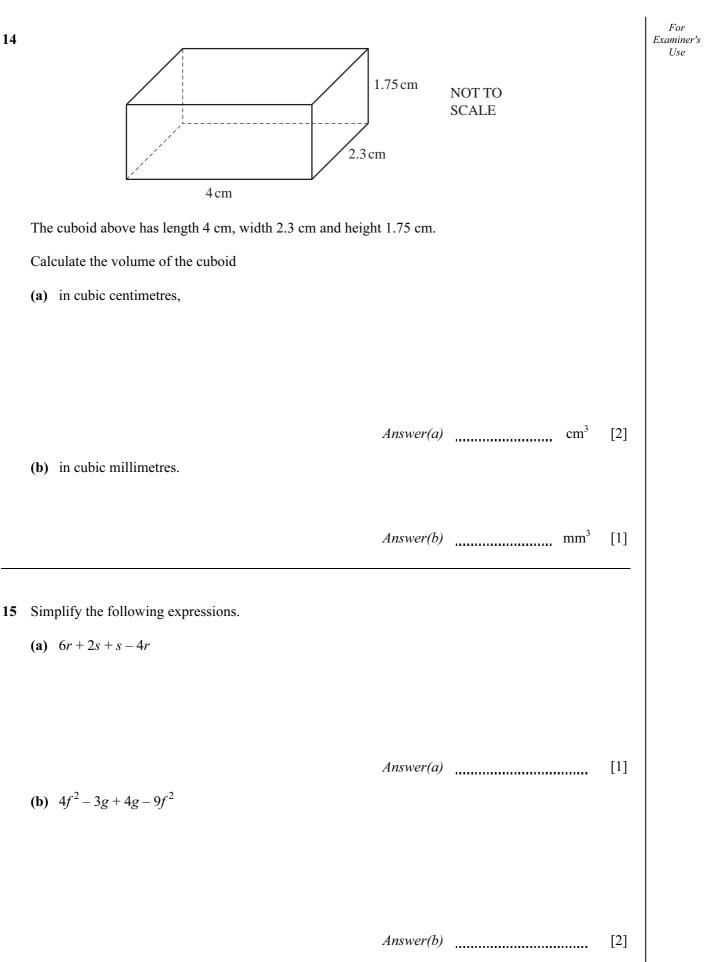
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| 7 | Mrs Duval makes one litre of ice cream. She eats $\frac{1}{8}$ litre and her children eat $\frac{3}{5}$ litre. Without using your calculator, find what fraction of a litre of ice cream is left. Show all your working clearly. | For Examiner's Use |
|---|---|--------------------------|
| | Answer [2] | |
| 8 | (a) Use your calculator to work out 27.4 × (3.28 + 1.6 × 9.8). Write down all the figures from your calculator display. | |
| | <i>Answer(a)</i> [1] (b) Write your answer to part (a) correct to 3 significant figures. | |
| | <i>Answer(b)</i> [1] | |
| 9 | Calculate the area of a circle of radius 3.75 cm. | |
| | <i>Answer</i> | |



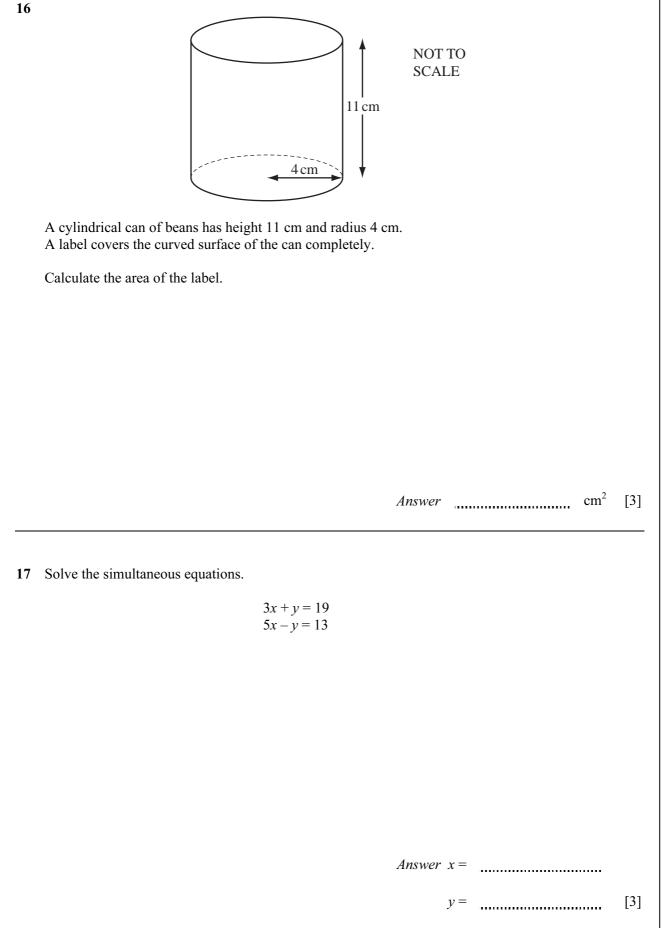
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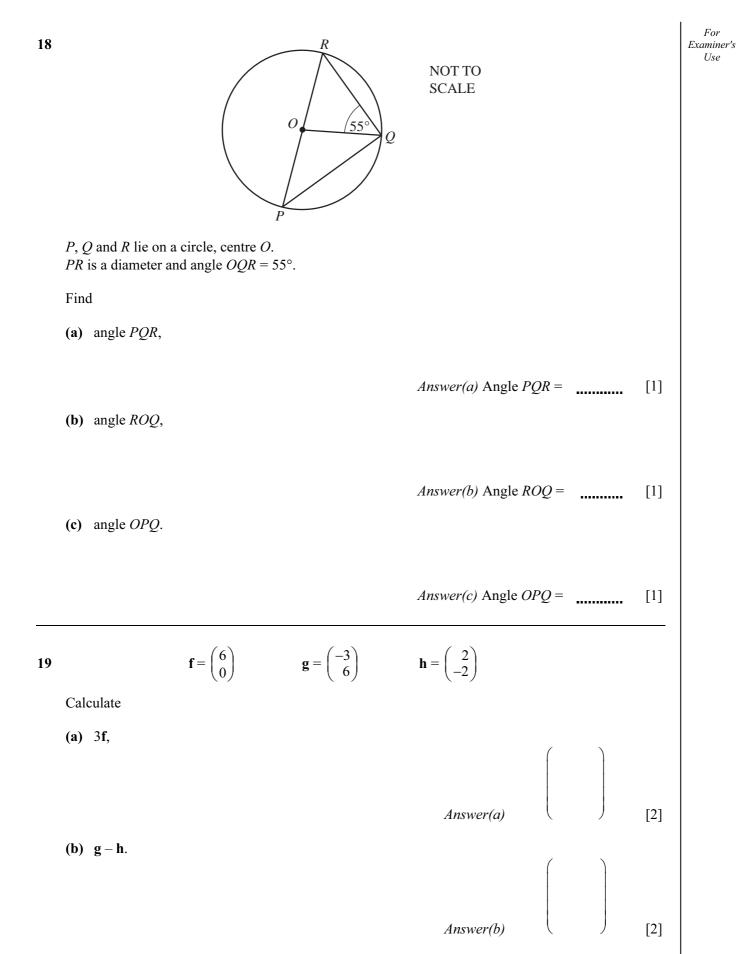


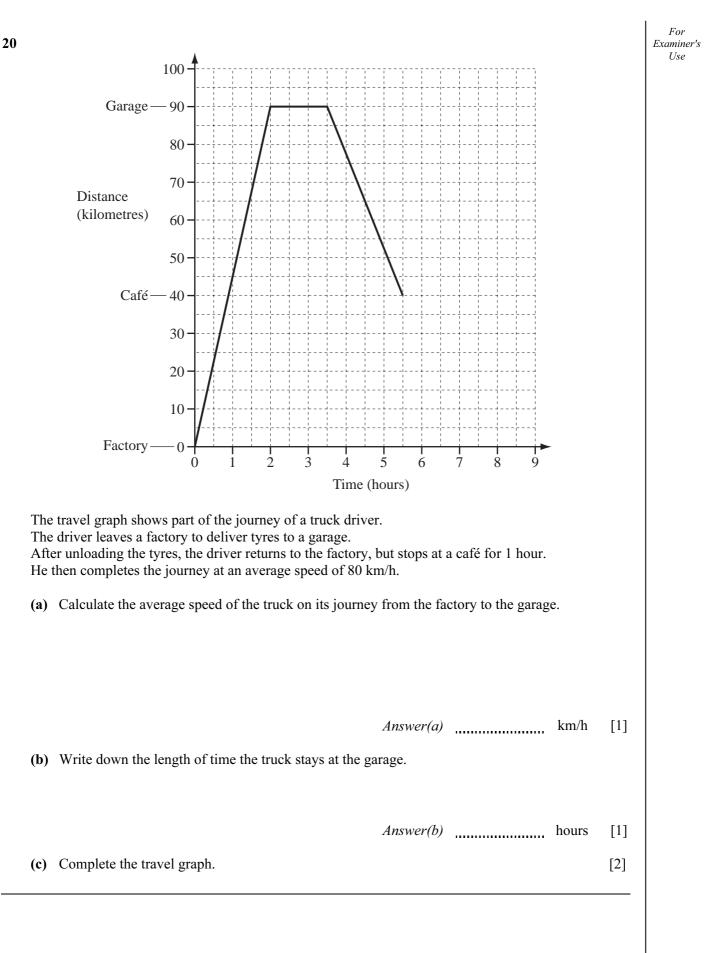
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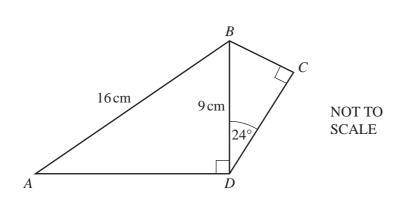
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The diagram shows a quadrilateral *ABCD*. AB = 16 cm, BD = 9 cm and angle $BDC = 24^{\circ}$. Angle $ADB = 90^{\circ}$ = angle *BCD*.

Calculate the length of

(a) *AD*,

(b) *CD*.

Answer(a) AD = cm [3]

Answer(b) CD = cm [2]

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