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| | ERSITY OF CAMBRIDGE INTE national General Certificate of S | ERNATIONAL EXAMINATIONS econdary Education |
| CANDIDATE NAME | | |
| CENTRE NUMBER | | CANDIDATE NUMBER |
| MATHEMATICS | | 0580/13 |
| Paper 1 (Core) | | May/June 2010 |
| | | 1 hour |
| Candidates answer or | n the Question Paper. | |
| Additional Materials: | 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.

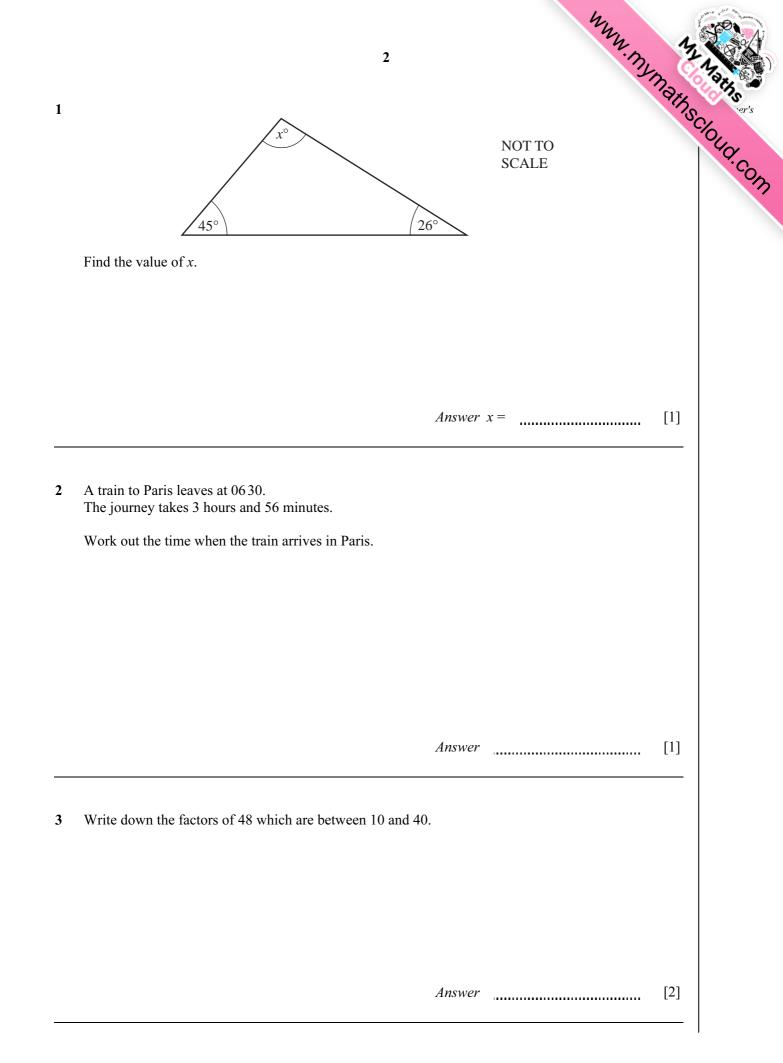
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

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 **11** printed pages and **1** blank page.

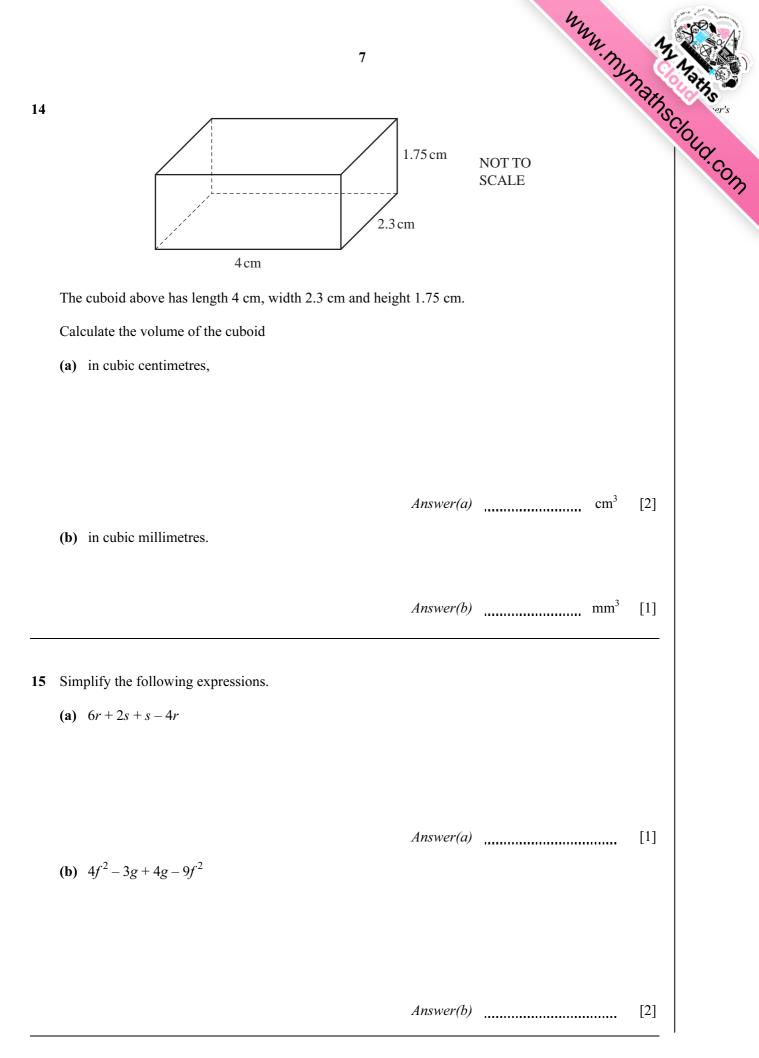


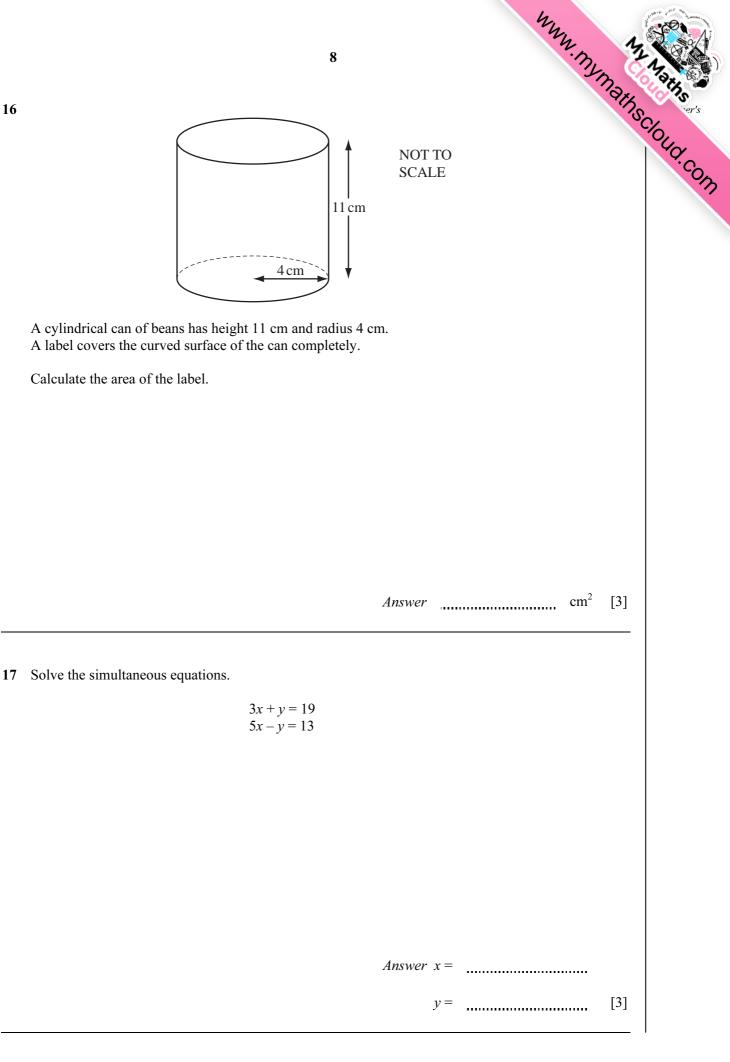


| | | | | | 3 | | | MM. D. | 32 |
|-----|---------------|--------------|-----------------|------------|---------------|-----------------|-------------------|--------|------------|
| | | | < | | = | > | | 2 | In athscio |
| For | r each par | t, choose a | symbol from | those ab | ove to m | ake a correct s | tatement. | | 40 |
| (a) | $\frac{5}{9}$ | | 0.55 | | | | | | [1] |
| (b) | 66% | | $\frac{2}{3}$ | | | | | | [1] |
| In | a sale, the | e price of a | boat was redu | uced from | n \$21000 |) to \$16800. | | | |
| Ca | lculate the | e reduction | as a percenta | ige of the | original | price. | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | Answer | | % | [2] |
| Wr | ite down | the equation | on of the line, | parallel t | $x_0 y = 3x$ | | asses through the | | |
| Wr | ite down | the equatic | on of the line, | parallel t | $x_0 y = 3x$ | | | | |
| Wr | ite down | the equatic | on of the line, | parallel t | $x_0 y = 3x$ | | | | |
| Wr | ite down | the equatic | on of the line, | parallel t | $x_0 y = 3x$ | | | | |

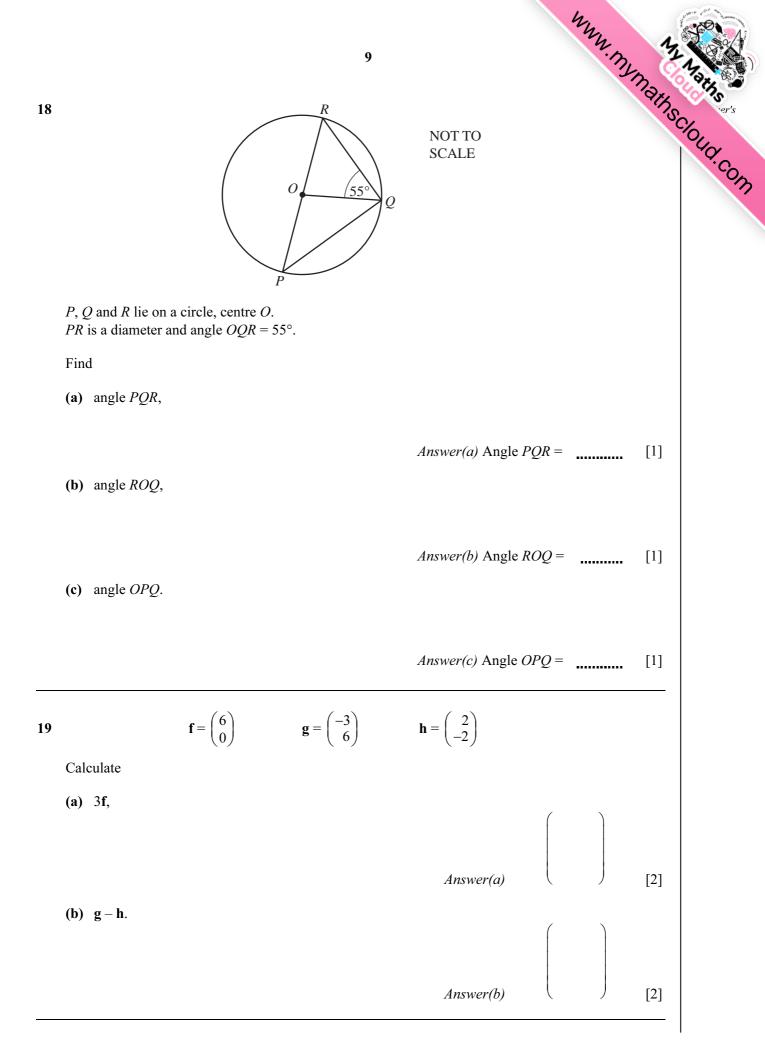
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|--|
| 4 . Myn My |
| 4 Mrs Duval makes one litre of ice cream. She eats $\frac{1}{8}$ litre and her children eat $\frac{3}{5}$ litre. Without using your calculator, find what fraction of a litre of ice cream is left. Show all your working clearly. |
| Without using your calculator, find what fraction of a litre of ice cream is left. Show all your working clearly. |
| |
| |
| |
| Answer [2] |
| (a) Use your calculator to work out $27.4 \times (3.28 + 1.6 \times 9.8)$. Write down all the figures from your calculator display. |
| Answer(a) [1] |
| (b) Write your answer to part (a) correct to 3 significant figures. |
| <i>Answer(b)</i> [1] |
| Calculate the area of a circle of radius 3.75 cm. |
| |
| Answer cm^2 [2] |
| Answer CIII [2] |

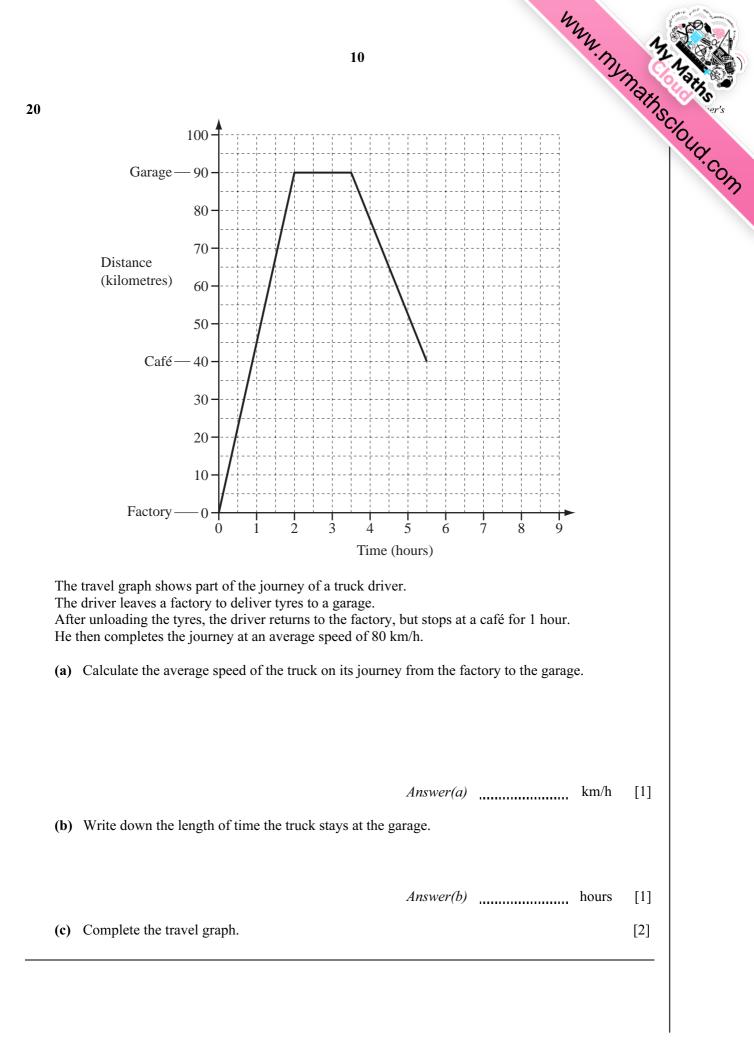
| | | mm | 4 |
|----|-----|--|-----------|
| 10 | (a) | 5 ·myn | Ary Maths |
| 10 | (a) | 5 mm.mm | iscioud. |
| | | | |
| | | Write down the order of rotational symmetry of the shape above. | |
| | | Answer(a) | [1] |
| | | | |
| | | AMNOTX From the list, write down the letters which have only one line of symmetry. | |
| | | | [2] |
| | Sim | From the list, write down the letters which have only one line of symmetry. | [2] |
| | | From the list, write down the letters which have only one line of symmetry. Answer(b) | [2] |
| 11 | | From the list, write down the letters which have only one line of symmetry. <i>Answer(b)</i> plify | [2] |
| 11 | | From the list, write down the letters which have only one line of symmetry. $Answer(b)$ $m^{3} \times m^{-5},$ | |
| 11 | (a) | From the list, write down the letters which have only one line of symmetry. <i>Answer(b)</i> plify | [2] |
| 11 | (a) | From the list, write down the letters which have only one line of symmetry. $Answer(b)$ plify $m^{3} \times m^{-5},$ $Answer(a)$ | |
| 11 | (a) | From the list, write down the letters which have only one line of symmetry. $Answer(b)$ plify $m^{3} \times m^{-5},$ $Answer(a)$ | |

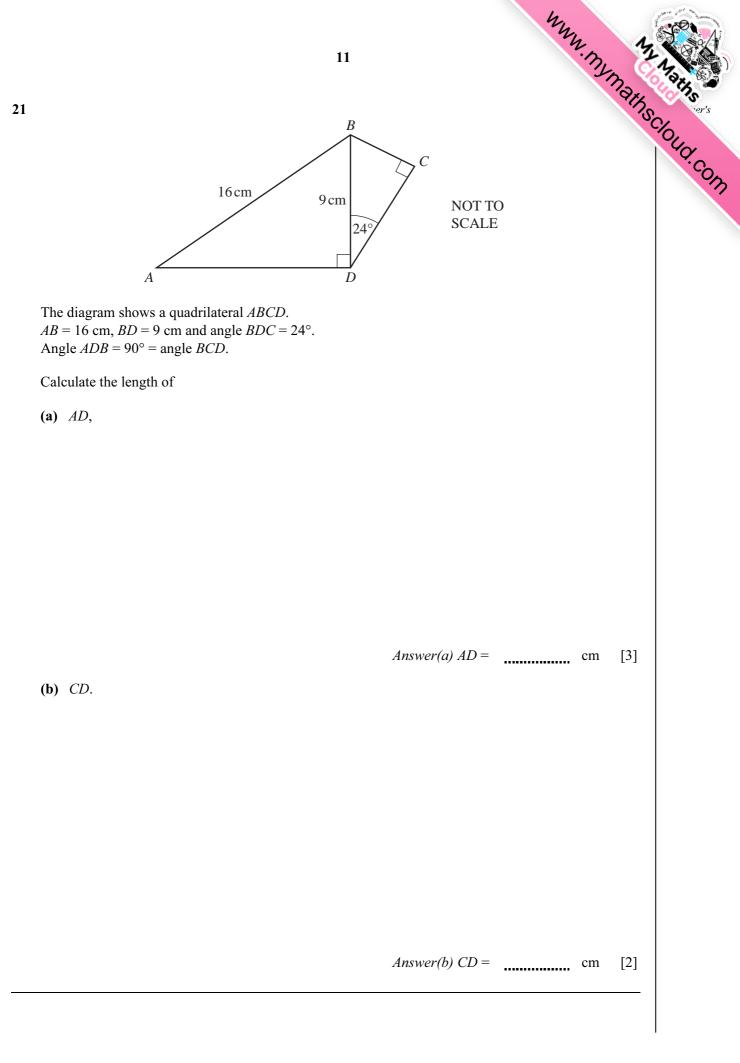




16









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