OXFORD CAMBRIDGE AND RSA EXAMINATIONS

General Certificate of Secondary Education

MATHEMATICS C
(Graduated Assessment)

1966/2333A

MODULE M3 – SECTION A

Wednesday	**28 JUNE 2006**	Morning	30 minutes

Candidates answer on the question paper.
Additional materials:
    Geometrical instruments
    Tracing paper (optional)

Candidate
Name

Centre
Number

Candidate
Number

TIME   30 minutes

INSTRUCTIONS TO CANDIDATES

*   Write your name, Centre number and candidate number in the boxes above.
*   Answer **all** the questions.
*   Use blue or black ink. Pencil may be used for graphs and diagrams only.
*   Read each question carefully and make sure you know what you have to do before starting your answer.
*   In many questions marks will be given for a correct method even if the answer is incorrect.
*   Do **not** write in the bar code.
*   Do **not** write outside the box bordering each page.
*   WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.

INFORMATION FOR CANDIDATES

*   The number of marks is given in brackets [ ] at the end of each question or part question.
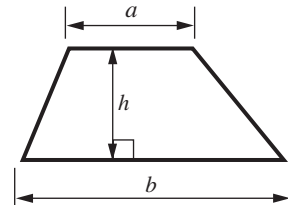*   The total number of marks for this Section is 25.

WARNING

You are not allowed to use a calculator in Section A of this paper.

FOR EXAMINER'S USE	
Section A	
Section B	
TOTAL	

This question paper consists of 7 printed pages and 1 blank page.

[Turn over

Formula Sheet

Area of trapezium $= \frac{1}{2}(a+b)h$

PLEASE DO NOT WRITE ON THIS PAGE

1 **(a)** One hundred pupils pay £24·60 each to go on a trip to the Eden Project.

Work out £24·60 × 100.

(a) £...................................[1]

(b) Ten people share equally the cost of their meals in a restaurant.
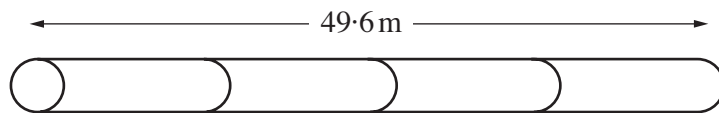The total cost of the meals is £86·40.

Work out £86·40 ÷ 10.

(b) £ ....[1]

(c) Five boxes of books are delivered to a school.
Each box weighs 16·7 kg.

Work out the **total** weight of the 5 boxes.

(c) ....kg [2]

(d)

$\longleftarrow$ ———— 49·6 m ———— $\longrightarrow$

Four identical waste pipes are joined together.
The total length of the four pipes is 49·6 m.

How long is each pipe?

(d) ....m [2]

6

[Turn over

2   Solve.

   (a) $x - 5 = 15$

   (a) ....[1]

   (b) $2x = 18$

   (b) ....[1]

   (c) $7 = x + 3$

   (c) ....[1]

   [3]

3   Bev is buying a TV costing £840.
   She pays a deposit of 20%.

   Work out 20% of £840.

£840
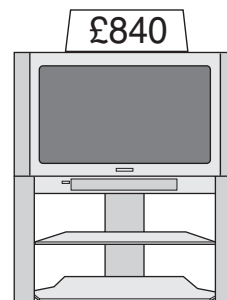
   £ ....[2]

   [2]

4   **(a)** Put one pair of brackets in each expression to make the answer correct.
The first one has been done for you.

$$7 \; + \; (\, 6 \; - \; 2 \,) \; \times \; 4 \; = \; 23$$

$$3 \; + \; 5 \; \times \; 2 \; + \; 6 \; = \; 22$$

$$3 \; + \; 5 \; \times \; 2 \; + \; 6 \; = \; 43 \qquad\qquad [2]$$

(b) Here is a part of Kevin's homework.

> **Question 3**
>
> 4 + 7 × 5 = 55

His answer is wrong.

Explain what Kevin has done wrong.

....

....[1]

| 3 |

5   A bottle holds 700 ml of wine.

How much wine will 6 of these bottles hold?
Give your answer in litres.

................................litres [2]

| 2 |

[Turn over

6 **(a)** Connect each fraction with its decimal equivalent.
The first one has been done for you.
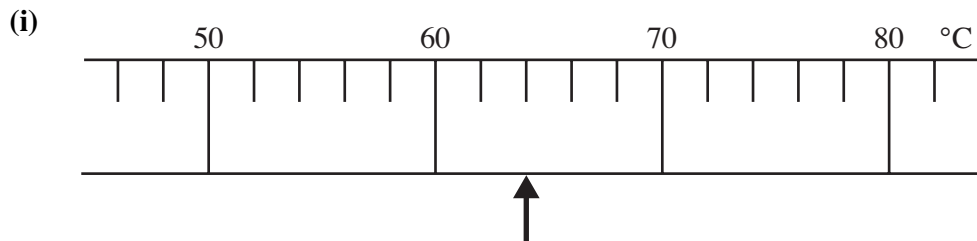
$\frac{1}{5}$

$\frac{1}{4}$

$\frac{1}{2}$

0·5

0·45

0·4

0·35

0·3

0·25

0·2

0·15

0·1

[2]

(b) Choose a number from this list to complete the sentence.

12   16   20   30   36   50

1 foot is roughly .... centimetres.   [1]

(c) What value does each arrow point to?

(i)

50   60   70   80   °C

(c)(i) ....°C [1]

(ii)

20   30   40   litres
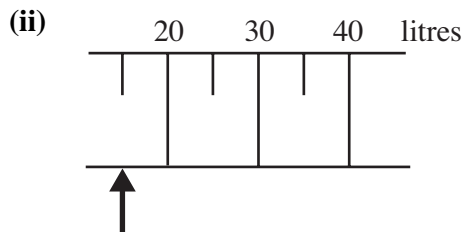
(ii) ....litres [1]

5

7 Steve orders presents on the internet.

He orders   one DVD for £18·60
                  two CDs for £9·84 each.

He has also to pay for the postage on his total order.
This table shows the cost of postage.

Total order (£)	Postage(£)
0·00 – 9·99	0·65
10·00 – 29·99	1·20
30·00 – 39·99	2·45
40·00 and over	5·00

Work out how much he has to pay altogether.

£ ....[4]

4

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