

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

MATHEMATICS C
(Graduated Assessment)



1966/2333B

MODULE M3 – SECTION B

Monday **23 JANUARY 2006** Morning 30 minutes

Candidates answer on the question paper.

Additional materials:

- Geometrical instruments
- Tracing paper (optional)
- Electronic calculator

Candidate
Name

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Centre
Number

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Candidate
Number

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TIME 30 minutes

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers on the dotted lines unless the question says otherwise.
- 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.
- There is a space after most questions. Use it to do your working. 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 in the grey area between the pages.
- **DO NOT WRITE IN THE AREA OUTSIDE THE BOX BORDERING EACH PAGE. ANY WRITING IN THIS AREA WILL NOT BE MARKED.**

INFORMATION FOR CANDIDATES

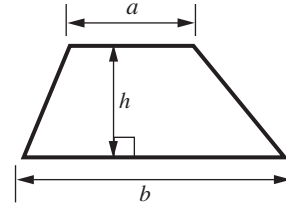
- You are expected to use a calculator in Section B of this paper.
- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 9.

FOR EXAMINER'S USE	
Section B	

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

Formula Sheet

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



9 (a) Simone recorded the temperature, in °C, outside her house on six evenings.

3 -10 -6 8 -3 0

Write these temperatures in order, **lowest** first.

..... [2]
lowest

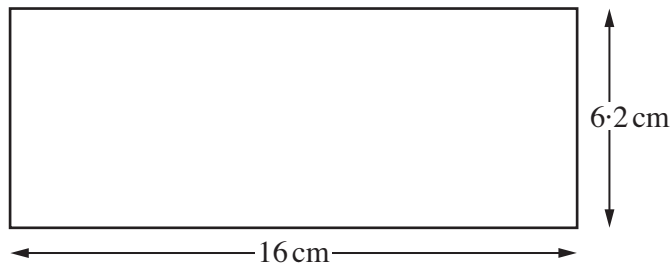
(b) The temperature outside Simone’s house was -3°C .
 The temperature inside the house was 18°C .

How much warmer was it inside the house than outside?

(b).....°C [1]

3	
---	--

10



Work out the area of this rectangle.

..... cm² [2]

2	
---	--

11 Here is a number sequence.

4 11 18 25

(a) Write down the next number in the sequence.

(a).....[1]

(b) Explain how you worked out your answer.

.....[1]

2

12 There are five children in the Warner family.
Here are their ages.

6 8 14 15 17

Calculate

(a) the range of their ages,

(a).....[1]

(b) the mean of their ages.

(b).....[3]

4

13 This is a scale diagram showing part of the M473 motorway.



(a) Work out the real distance between Junction 15 and the Service Area.

(a) km [2]

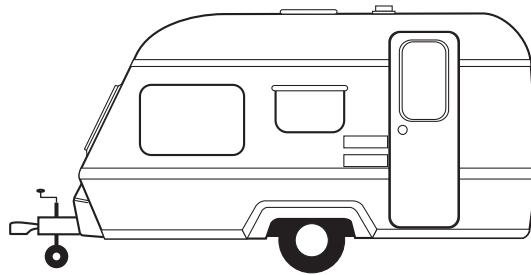
(b) Junction 16 is 10 km from Junction 15.

On the diagram, draw an arrow to show the position of Junction 16.

[2]

4	
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14 (a)



A caravan is 24 feet long.

In the list below ring the number of metres which is nearest to 24 feet.

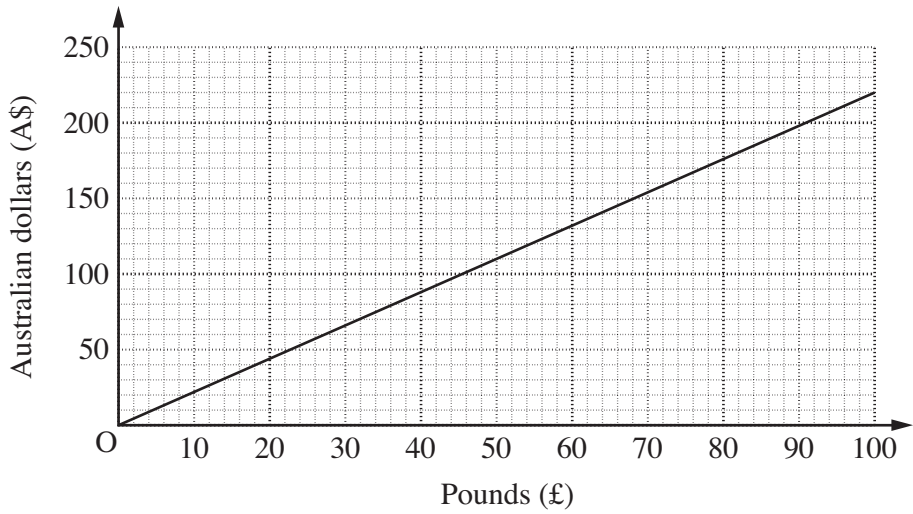
2.4 3 8 11 24 72 240 [1]

(b) Ring one answer below which could be the capacity of the petrol tank of a car.

200 ml 60 litres 50 ml 6 litres 600 litres [1]

2	
---	--

15 (a) This graph can be used to change between pounds and Australian dollars.



(i) Use the graph to change 150 Australian dollars to pounds.

(a)(i) £[1]

(ii) Use the graph to help you change £150 to Australian dollars.

(ii) A\$[2]

(b) A bank makes a charge to change money.
It uses this formula.

Charge (in pounds)
number of pounds divided by 50
then add 3

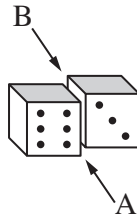
Peter changes £348.
Calculate how much the bank charges Peter.

(b) £[2]

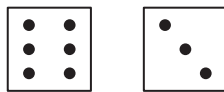
5	
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16 The opposite faces of a dice add up to seven.

(a) Here are two dice on a table.



Here is the view from A.

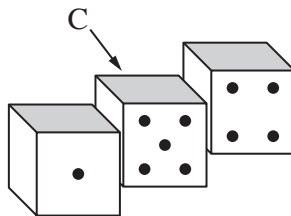


Which of these is the view from B?

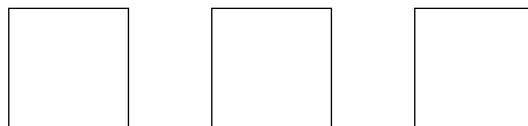
Write YES or NO

..... [1]

(b) Here are three dice on a table.



Complete the view from C.



[2]

