

OXFORD CAMBRIDGE AND RSA EXAMINATIONS General Certificate of Secondary Education

MATHEMATICS C (Graduated Assessment)

1966/2333B

MODULE M3 – SECTION B

Tuesday 25 JANUARY 2005 Morning 30 minutes

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

Candidate

Candidate Name

Centre Number

Number

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, in blue or black ink, on the dotted lines unless the question says otherwise.
- 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.

INFORMATION FOR CANDIDATES

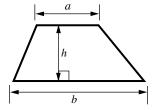
- You are expected to use a calculator in Section B of this paper.
- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 7.

FOR EXAMINER'S USE			
Section B			

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

Formula Sheet

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



7 (a) A group of ten pupils each has a tube of sweets.

They each count the number of sweets in their own tube.

Here are their results.

43	44	38	37	43
42	43	40	38	42

Work out

(i) the range,

(a)(i)	 [1	L	ı

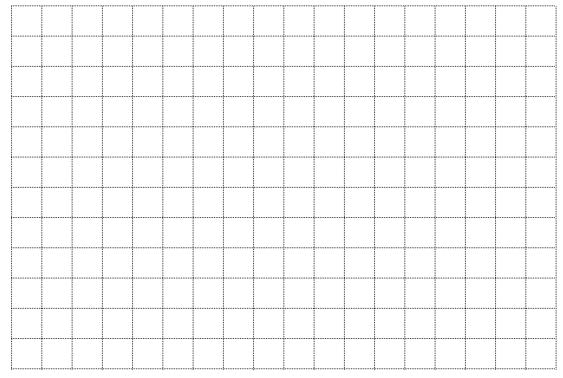
(ii) the mean.

(ii)[3]

(b) One pupil records the colour of each of her sweets. Here are the results.

Colour	Red	Yellow	Green	Blue	Orange	Pink
Frequency	4	10	8	11	5	2

Use the grid below to draw a suitable diagram to represent these data.

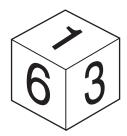


[3]

7

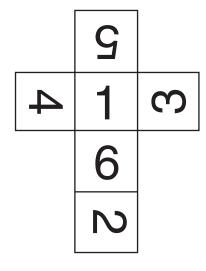
[1]
[1]
[1]
3
[2]
[1]
_

10 Sajid has written the numbers 1 to 6 randomly on a blank dice. Here are two views of his dice.



5 2

Which of these nets could fold to make his dice? Put a tick under those that do.



.....

.....

 3
 4

 2
 4

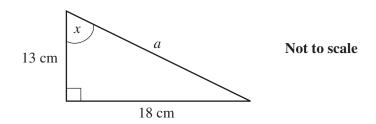
[2]



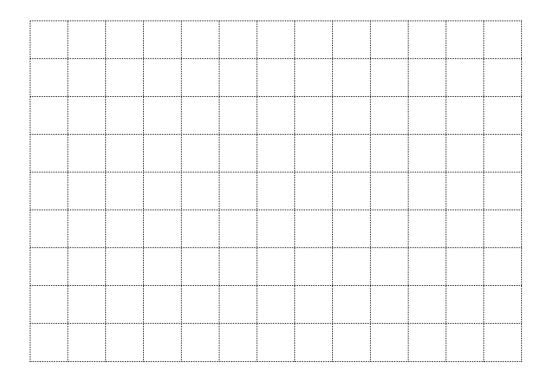
11 Write these volumes in order, smallest first.

$\frac{1}{2}$ litre	2 litres	200 ml	0.7 litre	
				[2]

12



(a) Make an accurate scale drawing of this triangle on the grid below. Use a scale of 1 cm to 2 cm.



[2]

(b) Use your drawing to find

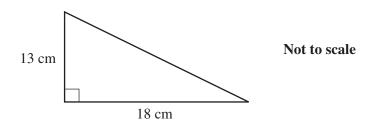
(i) the real length of side a,

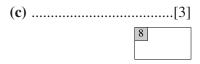
(b)(i) cm [2]

(ii) the size of angle x.

(ii)° [1]

(c) Work out the area of this triangle.





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