

	OXFORD CAMBRIDGE AND RSA EXAMINATIONS General Certificate of Secondary Education				
	MATHEM	ATICS C ed Assessment)			
	MODULE M2 – SECTION A		1900/2332A		
	Monday	23 JANUARY 2006	Morning	30 minutes	
	Candidates an Additional mat Geometrica Tracing pa	swer on the question paper. erials: al instruments per (optional)			
Candida Name	lte				
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.
- 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

- 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 8 printed pages.

Formula Sheet

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

1 Work	out.
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(a) $\pounds 1.45 + \pounds 2.15$

(a) £[1	l]
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(b) $\pounds 9.35 - \pounds 2.20$

(**b**) £[1]

(c) 25% of £20

(c) £.....[2]

2 (a) Fill in the missing numbers in this number pattern.

101 × 101	=	10201	
1001 × 1001	=	1002001	
×	=	100020001	[1]

(b) Fill in the missing number for the same number pattern.

1000001 × 1000001 =	[1]
---------------------	-----

(c) Fill in the missing numbers for the same number pattern.

..... × = 100000020000001 [1]

[Turn over

3 Tom and James find these coins in their room. They share the money out equally.

Which coins do they each get?

An image has been removed due to third party copyright restrictions Details: An image of a selection of coins: one twenty pence coin, two ten pence coins, a two pence coin and six one pence coins

Tom	•••••
James	[2]

2

4 Look at these shapes.

Write **Yes** underneath the shapes that are the nets of a cuboid. Write No under those that are not the nets of a cuboid.



.....

[2]

2

6

- 5 (a) Amy notes the number of text messages she sends each day for a week. Here are the results.
 - 18 21 24 15 24 22 24
 - (i) Write down the median of these numbers.

(a)(i)[2]

(ii) Write down the mode of these numbers.

(ii)[1]

(b) During the Eid festival she sends 63 text messages. Each text message costs 3p to send.

How much is this altogether?

(b) £[2]

(c) In 2003, 78 million text messages were sent on St Valentine's day. This was six times the number of Valentine cards sent.

How many million Valentine cards were sent?

(c) million [2]

(d) The maximum length of a text message is 100 characters. Marian has already keyed in 83 characters.

How many more characters can she key in?



(d)[1]

(e) In a survey of 300 mobile phone users, 50% said they had sent a text message in the last five minutes.

How many people was this?

(f)

(e)		[1]	
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Millions of text messages sent each day in the UK			
	Year		
Month	2000	2001	2002
Jan.	10.6	30.6	45.6
Feb.	12.8	28.9	43.9
Mar.	12.2	28.3	43.3
Apr.	12.8	30.6	44.4
May	16.1	31.1	45.6
Jun.	16.7	32.2	45.6
Jul.	16.7	32.8	44.4
Aug.	17.8	34.4	45.0
Sep.	19.4	36.1	47.8
Oct.	21.7	38.3	50.6
Nov.	22.2	40.0	50.6
Dec.	24.4	42.2	52.8

Use the table to help you complete these sentences.

- (i) In May 2001 million text messages were sent each day. [1]
- (ii) Between January 2000 and January 2002 the number of text messages sent each day

went up by million.

TURN OVER FOR QUESTION 6

[2]

8

6 Complete this diagram so that the dotted line is a line of symmetry.



[2]

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