OCR						
GENERAL CERTIFICATE OF SECONDARY EDUCATION MATHEMATICS C (GRADUATED ASSESSMENT)						
MODULE M6 - SECTION B MONDAY 22 JANUARY 2007			Mornina			
		т	ime: 30 minutes			
Candidates answer on the c Additional materials: Geor Traci Scier	uestion paper. netrical instruments ng paper (optional) ntific or graphical calculator					
Candidate Name						
Centre Number		Candidate Number				
<ul> <li>INSTRUCTIONS TO CANDIDATES</li> <li>Write your name, Centre Number and Candidate Number in the boxes above.</li> <li>Answer all the questions.</li> <li>Use blue or black ink. Pencil may be used for graphs and diagrams only.</li> <li>Read each question carefully and make sure you know what you have to do before starting your answer.</li> <li>In many questions marks will be given for a correct method even if the answer is incorrect.</li> <li>Do not write in the bar code.</li> <li>Do not write outside the box bordering each page.</li> <li>WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.</li> </ul>						
<ul> <li>INFORMATION FOR CANDIDATES</li> <li>You are expected to use a calculator in Section B of this paper.</li> <li>The number of marks is given in brackets [] at the end of each question or part question.</li> <li>The total number of marks for this Section is 25.</li> <li>Section B starts with question 7.</li> <li>Use the π button on your calculator or take π to be 3.142 unless the question says otherwise.</li> </ul>						
		-	For Examiner's Use Section B			
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2 Formula Sheet



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

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7 (a) Calculate the volume of this cuboid.



(a)...... $cm^3$  [2]

(b) The cuboid below has the same volume as the cuboid in (a).



Work out the height, h.





8 (a) Complete the table of values for x + y = 6.

x	0	2	4	6
у			2	

### (**b**) Draw the graph of x + y = 6.



[2]

3

[1]

### 9 Calculate.

(a)  $48.3 - 6.7 \times 4.8$ 

(**a**)......[1]

**(b)** 
$$\frac{7 \cdot 5}{15 - 3 \cdot 4}$$

Give your answer correct to 2 decimal places.

3

#### 10 Solve.

(a) 8x + 11 = 3x + 21

# **(b)** 2(2x-3) = 8

(a).....[3]

**(b)** ......[3]

11 Dave changed £65 into euros. He received €91. At the same time, Graham changed £75 into euros.

How many euros did Graham receive?

€.....[3]

**12** This is a sketch of the trapezium ABCD.



(a) Draw accurately the trapezium ABCD. The side AB has been drawn for you.

		A 11 c	m B	[3]
(b)	(i)	Measure the length DC on your diagram	ı. (b)(i) cm	[1]
	(ii)	Work out the area of the trapezium ABC	D.	

(ii) ......cm<sup>2</sup> [2]

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