OCR RECOGNISING ACHIEVEMENT					
GENERAL CERTIFICATE OF SECONDARY EDUCATION MATHEMATICS C (GRADUATED ASSESSMENT)					
MODULE M5 – SECTION A					
MONDAY 22 JANUAR	Morning				
		Time: 30 minutes			
Candidates answer on the question paper. Additional materials: Geometrical instruments Tracing paper (optional) Pie chart scale (optional)					
Candidate Name					
Centre Number	Candidate Number				
INSTRUCTIONS TO CANDIDAT	ES				
 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 CANDIDAT	TES				
 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.	Section A			
		Section B			
		Total			
This document consists of 8 printed pages.					

SP (SLM/CGW) T19613/2

© OCR 2007 [100/1142/0]

OCR is an exempt Charity

[Turn over

Formula Sheet

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









(a)	The	attendance at a football match was 22634.			
	Wri	Vrite 22 634			
	(i)	correct to the nearest thousand,			
	(ii)	(a)(i)[1] correct to one significant figure.			
		(ii)[1]			
(b)	 (b) Mohibur organises a coach to take fans to another match. 42 fans have to pay £11.25 each to travel on the coach. 				
	(i)	Write down a calculation Mohibur could do in his head to estimate the total amount paid for the coach.			
		×			
	(ii)	Is your estimate bigger or smaller than the exact amount? Explain how you decide.			
		because			
		[1]			

2 Solve.

(a) 11 = x + 3

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

(b)
$$5x = 60$$





y 3 2 1 Т -ż 2 3 -4 -3-1 0 4 х -1 -2 -3-

- (a) Rotate triangle T by 90° clockwise about the origin. Label your image Å. [2]
- (b) Translate triangle **T** by 3 squares to the left and 1 square down. Label your image **B**.

3



[1]

3

4 The scale drawing shows the position of two towns, Bury St Edmunds and Ipswich.



5



6

Street Cars have 50 cars. 60% of them are black.

Hasty Cabs have 44 cars. $\frac{3}{4}$ of them are black.

Which firm has more black cars? You must show clearly how you decide.

	••••
	••••
	••••
	[4]
4	

- **6** (a) Write down the value of the following.
 - (**i**) 6²

(a)(i)......[1]

(ii) √49

(ii).....[1]

(**b**) Work out.

 $5^2 - 2^3$

(b)	[2]
	4

PLEASE DO NOT WRITE ON THIS PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (OCR) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

OCR is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.