OCR RECOGNISING ACHIEVEMENT					
GENERAL CERTIFI	CATE OF SECONDARY I C (Graduated Assess	EDUCATION sment)	2334B		
MODULE M4 – SE	CTION B				
MONDAY 22 JANU	JARY 2007		Morning		
Candidates answer on the Additional materials: Ge Tra Ele	e question paper. cometrical instruments acing paper (optional) ectronic calculator	T 	Time: 30 minutes		
Candidate Name					
Centre Number		Candidate Number			
 INSTRUCTIONS TO CANDI Write your name, Centri Answer all the question Use blue or black ink. F Read each question ca In many questions mar Do not write in the bar Do not write outside th WRITE YOUR ANSWE ELSEWHERE WILL NO 	DATES re Number and Candidate Na is. Pencil may be used for graph refully and make sure you kn ks will be given for a correct code. e box bordering each page. R TO EACH QUESTION IN DT BE MARKED.	umber in the boxes above. s and diagrams only. now what you have to do befo method even if the answer is THE SPACE PROVIDED. ANS	ore starting your answer. incorrect. SWERS WRITTEN		
 INFORMATION FOR CAND You are expected to us The number of marks is The total number of marks Section B starts with question 	IDATES e a calculator in Section B o s given in brackets [] at the rks for this Section is 25. uestion 8.	f this paper. end of each question or part	question.		
			For Examiner's Use Section B		
This document consists of 8 printed pages.					
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2 Formula Sheet



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

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8 (a) Triangle **B** is a reflection of triangle **A**.

Draw in the mirror line for the reflection.



(b) Write down the order of rotation symmetry for these patterns.



(c) Shade six of the small triangles in the shape below to make a pattern with rotation symmetry of order 3.





[2]

[1]

9 Dan cycles to and from work.

There are two different routes he can take.

(a) One week Dan takes route A.

These are his journey times, in minutes.

14 18 12 18 20 16 19 13 21 12

(i) What is the range of these times?

(a)(i)minutes [1]

(ii) What is the median time?

(ii)minutes [2]

(b) Another week Dan takes route B.

The range and median of his times, in minutes, are shown in the table.

	Range	Median
Route B	5	19

Which route should Dan take?

Explain your reason.

Route	because	 	
			[1]
			4

10 (a) Your Music uses this rule to work out their delivery charge for CDs ordered online.

45p for each CD ordered

Write down an expression to work out the delivery charge, in pence, for n CDs.

(a)[1]

(b) CD Junction uses this formula to work out their delivery charge

$$C = 20n + 50$$

where C is the cost in pence, and n is the number of CDs ordered.

What is the delivery charge, in pence, for 5 CDs from CD Junction?

(**b**) p [2]

- **11** Maya is making cakes for a cake stall.
 - (a) Maya uses this recipe to make rock cakes.

Rock cakes		
Makes 10		
225gself raising flour		
$\frac{1}{2}$ teaspoon mixed spice		
100g butter		
75g sugar		
125g mixed fruit		
1 egg		

She makes 40 rock cakes.

Complete this list to show the ingredients for 40 rock cakes.



[3]

(b) Maya uses this formula to work out the price of each cake.

Price of cake in pence = $1.5 \times \text{cost}$ of ingredients in pence $\div 40$

The ingredients cost $\pounds 6.40$.

Work out the price of each cake.

(**b**) p [2]

12 Martha is designing a flower-bed for her garden.

It is in the shape of a square joined to a right-angled triangle.



(a) (i) She puts wooden edging around the perimeter of the flower-bed.Find the perimeter of the flower-bed.

(**a**)(**i**) m [2]

(ii) Wooden edging costs $\pounds 6.50$ per metre.

How much does Martha's edging cost?

(b) Calculate the total area of the flower-bed.

(b)	m ² [4]
	8

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