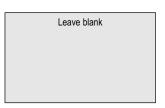
Surname	ne					Names			
Centre Number						Candidate Number			
Candidate Signature									



General Certificate of Secondary Education June 2003

MATHEMATICS (MODULAR) (SPECIFICATION B) Module 3 Foundation Tier Section A

33003/FA



Wednesday 25 June 2003 9.00 am to 9.40 am



In addition to this paper you will require:

- a calculator
- mathematical instruments
- a treasury tag.



Time allowed for Section A: 40 minutes

Instructions

- Use blue or black ink or ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions in the spaces provided.
- Do all rough work in this booklet.
- This paper is divided into **two** sections: Section A and Section B.
- After the 40 minutes allowed for Section A, you must put your calculator on the floor under your seat. You will then be given Section B.
- When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
- At the end of the examination, make sure that you hand in **both** Section A and Section B securely tagged together with Section A on top.

Information

- The maximum mark for Section A is 32.
- Mark allocations are shown in brackets.
- Additional answer paper will be issued on request and must be tagged securely to this answer booklet.
- You are expected to use a calculator where appropriate.

Advice

• In all calculations, show clearly how you work out your answer.

For Examiner's Use									
	T OF EXAMI								
Secti	on A		Sect	ion B					
Pages	Mark	Page	es	Mark					
2-3		2-3	}						
4-5		4-5	j						
6-7		6							
Total Sect	ion A								
Total Sect									
TOTAL									
Examiner	's Initials								

Answer all questions in the spaces provided.

1	A lis	t of numbers	is given b	elow.						
			4	5	7	12	15	19		
	State	which of the	se are							
	(a)	even number	rs,							
					•••••	•••••	•••••	•••••		
					•••••					
				Answe	er	•••••		•••••		(1 mark)
	(1.)									
	(b)	odd number	S.							
			••••••••	••••••	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	••••••
				••••••	•••••			•••••		••••••
				Answe	er	•••••	••••••	•••••	••••••	(1 mark)
2	The 1	temperatures	in seven	towns i	n Germ	any at 8	pm on o	ne day w	ere	
		5°C	12°C	7°C	8°C	C –1	7°C	–9°C	3°C	
	(a)	Write down	the colde	st of the	ese tem	perature	es.			
					•••••	•••••	•••••	•••••		
				Answe	er	•••••			°C	(1 mark)
	(b)	Write down	the warm	est of t	hese ter	nperatui	res.			
				Answe	er				°C	(1 mark)

(a)	(i)	Write 3748 in words.	
		Answer	
			(1 mark
	(ii)	Write 3748 to the nearest 100.	
		Answer	(1 mark
	(iii)	Write 3748 to the nearest 10.	
		Answer	(1 mark)
(b)	Here	is a list of numbers.	
		17 21 24 27 35 43 5	1
	•••••	Answer	
(c)	(i)	Write 49.461 correct to 1 decimal place.	
		Answer	(1 mark)
	(ii)	Write 49.461 correct to 2 decimal places.	
		Answer	(1 mark)



4 The distances, in miles, between seven cities in England are given in the chart below.

ъ.		1	
Kırr	nın	gham	١
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88	Bristol					
101	172	Cambridge				
143	106	92	Guildford	_		
120	120	61	30	London		
89	172	162	226	204	Manchester	
129	225	157	235	212	71	York

(a)	Vicky drives from London to Cambridge.
	What is the distance from London to Cambridge?
	Answer miles (1 mark)
(b)	Vicky then drives from Cambridge to Manchester.
` /	
	What is the distance from Cambridge to Manchester?
	Answer miles (1 mark)
(c)	If Vicky had driven directly from London to Manchester the journey would have been shorter.
	How many miles shorter would the direct journey have been?
	Answer miles (2 marks)

5	Ed thinks that when you square a number you always get an even number.								
	Give an example to show that Ed is wrong.								
	(2 marks)								
6	Mineral water is sold in two sizes.								
	Large 1 litre Standard 25 cl								
	£1.49 59p								
	Which size is the better value for money? You must show all your working.								
	Answer (2 marks)								



		•••••••••
	How much does Andrew earn?	
9	Andrew works for 3 hours 20 minutes. He is paid £5.40 per hour.	
	Answer minutes seconds	(4 marks)
	Give your answer in minutes and seconds.	
	For how long can Bev talk, at peak rate, for £10?	
8	The cost of a call at peak rate from Bev's mobile phone is 29p per minute.	
	Answer £	(2 marks)
	Find the cost of Clive's ice cream in pounds.	

10	Use your calculator to find the value of $\frac{3.4 \times 5.9}{9.9 - 6.2}$
	Answer
11	Matt spends £48 on travel and admission to a football match. The cost of travel and the cost of admission are in the ratio 1:4 The admission is the greater cost.
	Find the cost of admission.
	Answer £

END OF SECTION A

Surname					Other	Names			
Centre Number	tre Number					Candida	ate Number		
Candidate Signature									

General Certificate of Secondary Education June 2003

ASSESSMENT and QUALIFICATIONS

MATHEMATICS (MODULAR) (SPECIFICATION B) Module 3 Foundation Tier Section B

33003/FB



Wednesday 25 June 2003 9.45 am to 10.25 am

F

In addition to this paper you will require: mathematical instruments.

You must not use a calculator.



Time allowed for Section B: 40 minutes

Instructions

- Use blue or black ink or ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions in the spaces provided.
- Do all rough work in this booklet.
- You may **not** use your calculator in Section B. Your calculator must remain on the floor under your seat.
- When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
- At the end of the examination, make sure that you hand in **both** Section A and Section B securely tagged together with Section A on top.

Information

- The maximum mark for Section B is 32.
- Mark allocations are shown in brackets.
- Additional answer paper will be issued on request and must be tagged securely to this answer booklet.

Advice

• In all calculations, show clearly how you work out your answer.

Answer all questions in the spaces provided.

12	Liz buys three cans of coke at 73p per can.											
	(a)	How much does she pay?										
			•••••									
		Answer £	(2 marks)									
	Liz p	pays with a £10 note.										
	(b)	How much change should she receive?										
			•••••									
			•••••									
		Answer £	(2 marks)									
	(c)	This change is given using the smallest possible number of notes and coi	ins.									
		How is the change given?										
		Answer	(2 marks)									
			(=)									

	school there are 300 students in year 11. hese 300 students, 60% have a part-time job on Saturday.	
(a)	How many have a part-time job on Saturday?	
		•••••
	Answer	(2 marks)
(b)	Of these 300 students, $\frac{3}{4}$ decide to stay on at school into the sixth form.	
	How many do not stay on in the sixth form?	
		••••••
	Answer	(3 marks)
(c)	Of the 300 students, 24 are in one tutor group.	
	What percentage are in this tutor group?	
		••••••
	Answer %	(2 marks)



13

14	(a)	Write 0.3 as a fraction.		
		Answer		
	(b)	Divide 138 by 6		
		Answer (1 mark)		
	(c)	Work out 600 – 254		
		Answer		
	(d)	Work out 768×24		
		Answer (3 marks)		

	(e)	Find the value of	$2^3 \times 5^2$	
			Answer	(2 marks)
15	The	cost of 20 oranges is £9	9.	
	Find	the cost of one orange	2.	
	•••••			
	•••••			
	•••••			
			Answer	(3 marks)
16		has a roll of film deve	loped.	
		pays for 31 reprints. cost of each reprint is	49 pence.	
	Use You	suitable approximation must show all your wo	ns to estimate how much Asif pays for these reprint orking.	S.
	•••••			
				•••••
	•••••			
			Answer £	(3 marks)



Natasha pays £200 for 150 magazines.
She sells $\frac{3}{5}$ of them for £2 each.
She sells the rest of the magazines for £1 each.
How much money does she receive from selling the magazines?
Answer £(4 marks)

END OF QUESTIONS



17