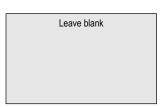
Surname	urname				Other	Names			
Centre Number						Candida	ate Number		
Candidate Signat	ure								



General Certificate of Secondary Education March 2005

ALIFICATIONS

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

33003/FA



Monday 28 February 2005 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 tag Section A and Section B 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 Exam	iner's l	Jse	
Secti	on A		Sect	ion B
Pages	Mark	Pag	es	Mark
2 – 3		2 –	3	
4 – 5		4 –	5	
6 – 7		6 – 7		
Total Sect	ion A			
Total Section B				
TOTAL				
Examiner'	s Initials			

Answer all questions in the spaces provided.

1	(a)	(i)	Write six million in figures.
		(ii)	Answer
			Answer
	(b)	Here	e is a list of numbers.
			10 11 27 37 45 53 71
		(i)	Write down two numbers from the list which add up to 80.
			Answer (1 mark)
		(ii)	Write down two numbers from the list which have a difference of 60.
			Answer (1 mark)
		(iii)	What is the largest number you can make when you multiply together two of the numbers on the list?
			Answer

2		Natasha buys a box of chocolates which costs £8.70 She pays with a £10 note.						
	(a)	How much change does she receive?						
		Answer £	(1 mark)					
	(b)	This change is given in the smallest number of coins.						
		How is the change given?						
		Answer	(1 mark)					
3	(a)	In the number 4926, what does the digit 2 represent?						
		Answer	(1 mark)					
	(b)	The number 4926 is multiplied by 10.						
		In the new number, what does the digit 9 represent?						
		Answer	(1 mark)					



4	Tom works from 1.45 pm to 5.30 pm every weekday.								
	(a)	How long does Tom work each day?							
		A server house	(2						
		Answer hours minutes	(2 marks)						
	(b)	On Saturday Tom works $6\frac{1}{2}$ hours. He is paid £5.40 per hour.							
		How much is Tom paid for Saturday's work?							
		Answer £	(2 marks)						
5	She	e summer, Nisha sells ice creams on the beach. is paid £3 per hour and 5p for every ice cream which she sells. one day, Nisha works 4 hours and sells 200 ice creams.							
	How	much is she paid for that day?							
	•••••								
	•••••								
	•••••								
	•••••								
		Answer £	(3 marks)						

	In the USA, a leather jacket costs \$96. The exchange rate is \$1.60 to £1.							
Fino	d the cost of the jacket in £.							
•••••								
	Answer £ (2 marks)							
7 The	re are 800 pupils at a school.							
Of t	these 800 pupils, $\frac{1}{10}$ are under 12, and $\frac{1}{5}$ are over 16.							
(a)	How many pupils are not under 12 and are not over 16?							
	Answer							
(b)	Of the 800 pupils, 320 are girls.							
	What percentage of the pupils in the school are girls?							
	Answer							



8	Wor	Work out						
	(a)	10 ⁵						
			Answer	(1 mark)				
	(b)	the cube of 7.						
			Answer	(1 mark)				

9 Two advertisements for the same type of sun oil are shown. The sun oil is usually sold in 100 ml bottles which cost £4 each.





Which offer gives the better v You must show all your work		
		 ••••••
		•••••••••••
Δ	Answer	(5 marks)

END OF SECTION A



Surname	Other N	lames			
Centre Number		Candidat	te Number		
Candidate Signature					

General Certificate of Secondary Education March 2005

ASSESSMENT and QUALIFICATIONS ALLIANCE

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

33003/FB

F

Monday 28 February 2005 9.45 am to 10.25 am

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 tag Section A and Section B 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.

10	Ang	gela wants to calculate an approximate value of $\frac{24.18}{5.98}$	
	(a)	Write each of these numbers to the nearest whole number.	
			•••••
		Answer	(2 marks)
	(b)	Use your numbers from part (a) to estimate the answer to Angela's calcu	ılation.
			••••••
			•••••
		Answer	(1 mark)

11 The distances, in miles, between seven cities in Britain are given in the chart below.

	1.	CC
Car	11	tt.
Cui	uı.	

-		1					
	302	Carlisle	7				
	401	172	Edinburgl	h			
	155	313	413	London	_		
	192	119	219	204	Manchest	er	
	202	164	247	169	37	Sheffield	
	141	343	442	80	233	207	Southampton

(a)	Kim drives from Cardiff to Carlisle. What is the distance from Cardiff to Carlisle?
	Answer miles (1 mark)
b)	Kim then drives from Carlisle to Sheffield. What is the distance from Carlisle to Sheffield?
	Answer miles (1 mark)
(c)	Kim then returns to Cardiff directly from Sheffield.
	How many miles does Kim travel in total?

Answer miles

(2 marks)

12	Worl	k out		
	(a)	25% of 40		
		Answer		
	(b)	700 - 381		
		Answer		
	(c)	268×72		
		Answer		

13	There are 50 people waiting for a ride at a theme park. Each car can carry 4 people.				
	How many cars are needed?				
	Answer				
	Answer				
14	Jim receives his electricity bill. The bill is for £140 plus VAT at 5%.				
	Calculate the VAT.				
	Answer £				

TURN OVER FOR THE NEXT QUESTION



15	Jenny buys 4 bottles of cola at £1.49 each. She says that the total cost is £5.96						
	This is how she worked it out.						
	$4 \times £1.50 = £6$						
£6 - 4p = £5.96							
	Use a similar method to work out $4 \times £4.98$ Show your working.						
	(2 marks)						
16	Alan drove 12 miles. The journey took 15 minutes.						
	What was Alan's average speed?						

Answer (4 marks)

17	(a)	Work out	$\frac{3}{7} \times 28$	
			Answer	(2 marks)
	(b)	Work out	0.3×0.1	
			Answer	(1 mark)
	(c)	Work out	$\frac{3}{5} \div 6$	
			Answer	(2 marks)
	(d)	Work out	$\frac{3}{5} - \frac{1}{4}$	
			Δnswer	(2 marks)

END OF QUESTIONS