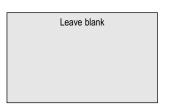
Surname				Other	Names			
Centre Number					Candida	ate Number		
Candidate Signat	ure							



General Certificate of Secondary Education November 2004

ALIFICATIONS

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

33003/FA



Wednesday 17 November 2004 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 Examiner's Use							
Secti	on A		Sect	ion B			
Pages	Mark	Page	es	Mark			
3		2 –	3				
4 – 5		4 –	5				
6 – 7		6 –	7				
Total Sect	ion A						
Total Sect							
TOTAL							
Examiner	's Initials						

NO QUESTIONS APPEAR ON THIS PAGE

Answer all questions in the spaces provided.

1 Write the number 2764

(a)	to	the	nearest	10.
١	α,		CIIC	mour obt	10

Answer (1 mark)

(b) to the nearest 100.

Answer (1 mark)

2 Fill in the missing numbers in these calculations.

(a)
$$12 + \boxed{} = 30$$

(3 marks)

TURN OVER FOR THE NEXT QUESTION

3 Sue ar	d Chris go on a	a skiing holida	ay.								
` '	The holiday costs 876 Euros (€). Sue and Chris share the cost equally.										
]	How much does each person pay?										
		Answe	er €			(2 marks)					
(b) T	The cost of a sk	i pass is €28.5	50								
7	What is the cost	t of two ski pa	asses?								
		•••••	•••••								
		Answe	er €			(2 marks)					
(c) T	The table shows	s the temperar	ture at 9 am or	n each day of	the holiday.						
Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday					
-1°C	-2°C	−3°C	-1°C	1°C	1°C	2°C					
What is the difference in temperature between the warmest day and the coldest day?											
	Answer°C (2 marks)										

	(d)	Chris pays €18 for The exchange rate		
		What is the price of	of the meal in pounds?	
			Answer £	(2 marks)
4	A ga	arden centre has ton	nato plants for sale.	
			Tomato plants	
			40 pence each	
			or £5 for a box of 20	
	Wor	k out the cheapest r	price for 24 tomato plants.	
	•••••			
	•••••		Answer £	(3 marks)



5	(a)	Work out two-thirds of 144.	
			•••••
		Answer	(2 marks)
	(b)	Work out 20% of 155.	
			•••••
		Answer	(2 marks)
	(c)	Steve has a ribbon 4 metres long. He says, "I need 6 pieces each 0.72 metres long."	
		Will Steve have enough ribbon? Explain your answer.	
			(2 marks)
	(d)	Work out $\frac{1}{3.2 - 2.7}$	
		Answer	(1 mark)

6	pack	x buys a drink costing £1.35 and some packets of sweets costing 65 pencket. total cost is £3.95	e for each
	How	v many packets of sweets does Rick buy?	
	•••••		
		Answer	(3 marks)
7	(a)	An athlete runs 15 miles at an average speed of 6 miles per hour.	
		How long does he take to run the 15 miles? Give your answer in hours and minutes.	
		Answer hours minutes	(3 marks)
	(b)	Another athlete runs 18 miles in $2\frac{1}{4}$ hours.	
		What is her average speed?	
		Answer	(3 marks)

END OF SECTION A



Surname	name								
Centre Number	ntre Number					Candid	ate Number		
Candidate Signature									

General Certificate of Secondary Education November 2004

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

33003/FB



Wednesday 17 November 2004 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 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.

Jim l	nas six 5 p	ence co	ins, fo	ur 10 pe	nce co	oins an	d one 5	60 penc	e coin.		
How	much mo	oney doe	es he l	nave alto	gethe	er?					
				Answer	£						(2 marks)
Here	e is a list o	of numbe	ers.								
1	2	3	4	5	6	7	8	9	10	11	12
(a)	Write do	own all t	he squ	ıare num	ibers	in the	ist.				
				•••••						•••••	
				Answer							(2 marks)
(b)	Write do	own two	numb	ers in th	e list	that m	ultiply	togethe	er to giv	e 40.	
			••••••	Answer	••••••						(1 mark)
(c)	Which n	umber i	n the l	list is one	e qua	rter of	36?				
			•••••	Answer						••••••	(1 mark)

10	(a)	Write $\frac{1}{5}$ as a decimal.
		Answer
	(b)	Write 0.7 as a fraction.
		Answer
	(c)	Write 50% as a fraction.
		Answer
11	(a)	A television programme starts at quarter to eight and lasts for 25 minutes. At what time does it end?
		Answer
	(b)	Later, there is a film lasting 1 hour 50 minutes and a quiz lasting 45 minutes. What is the total time for the film and the quiz?
		Answer hours minutes (1 mark)



12	(a)	Fill in the missing numbers in these sentences.	
		(i) When 20 is divided by 6, the remainder is	
		(ii) When 20 is divided by, the remainder is 4.	(1 mark)
			(1 mark)
	(b)	Keith says, "When 20 is divided by an odd number, the remainder is always	ys odd."
		Give an example to show that Keith is wrong.	
			•••••
			•••••
			(2 marks)

13	Worl	rk out									
	(a)	(i)	3.5×10								
			Answer	(1 mark)							
		(ii)	3.5×40								
	<i>(</i> 2.)		Answer	(1 mark)							
	(b)	241	× 35								
		•••••									
		•••••									
		2	Answer	(3 marks)							
	(c)	53									
		•••••	Answer	(1 mark)							



14		re are 30 pupils in a class. number of pupils in the class on a school trip is 24.				
	(a)	What percentage of the class are on the school trip?				
		Answer %	(2 marks)			
	(b)	On the trip, 18 pupils go on a ride costing £2.15 each.				
		Estimate the cost of the 18 rides.				
		Answer £	(2 marks)			
15	Work out					
	(a)	0.2×0.4				
		Answer	(1 mark)			
			(1 mark)			
	(b)	$\frac{1}{3} \times \frac{4}{5}$				
		Answer	(1 mark)			

16	The table shows the amounts of tomatoes, onions and water needed to make tomato sauce
	for 4 people.

Fill in the amounts needed to make tomato sauce for 10 people.

	4 people	10 people
Tomatoes	200 g	g
Onions	2	5
Water	50 ml	ml

	Answer	m	(3 marks)	
		••••••	•••••	
		•••••	•••••	
	Give your answer in metres.			
	What is the actual length of the sports field?			
17	A map has a scale of 1:5000 On the map, the length of a sports field is 3 cm.			
			(2 marks)	
		•••••	••••••	

END OF QUESTIONS

