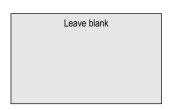
Surname					Other	Names	nes				
Centre Number						Candida	ate Number				
Candidate Sig											



General Certificate of Secondary Education March 2004

# ASSESSMENT and QUALIFICATIONS

# MATHEMATICS (MODULAR) (SPECIFICATION B) 33003/FA Module 3 Foundation Tier Section A

Thursday 4 March 2004 9.00 am to 9.40 am

F

## 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	Pages		Mark
2 – 3		2 –	3	
4 – 5		4 –	5	
6		6 –	7	
Total Sect	ion A			
Total Section B				
TOTAL				
Examiner's Initials				

## Answer all questions in the spaces provided.

1	(a)	Write eight thousand four hundred and thirty one in figures.	
		Answer	(1 mark)
	(b)	The number in part (a) is divided by 100.  What is the value of the digit 8 in the answer?	
		what is the value of the digit of in the answer:	
			•••••
		Answer	(1 mark)
	(c)	Write 37 258 to the nearest 100.	
		Answer	(1 mark)
	(d)	Write 37 258 to the nearest 1000.	
		Answer	(1 mark)

2 (a) The cost of postage depends both on the weight of the letter and whether it is sent first class or second class.

The table shows the cost of posting a letter.

Weight	Up to 60 g	60g and up to 100g	100g and up to 150g	150 g and up to 200 g
First Class	28p	42p	60p	75p
Second Class	20p	34p	46p	56p

	Find the total cost of sending:
	three first class letters, each weighing 40 g,
	one second class letter weighing 110g,
	and two first class letters, each weighing 175 g.
	Answer £
(b)	Simon buys some stamps. They cost him £3.74 He pays with a £10 note.
	How much change does he receive?
	Answer £ (1 mark)
(c)	This change is given in the smallest number of notes and coins.
	How is the change given?
	Answer Notes
	Coins

3	Beth	picks	s 400 roses and takes them to a local market.	
	(a)	Beth	$\frac{4}{5}$ of the roses.	
		(i)	How many roses does Beth sell?	
				•••••
			Answer	(2 marks)
		(ii)	Write $\frac{4}{5}$ as a percentage.	
				•••••
				(1 mark)
		(iii)	Write $\frac{4}{5}$ as a decimal.	
				•••••
			Answer	(1 mark)
	(b)	Of th	he 400 roses, 100 are red.	
		Writ	te the number of roses which are <b>not</b> red as a fraction of the total n s.	umber of
				••••••
		•••••		•••••
			Answer	(1 mark)
	(c)	Of th	he 400 roses, 48 are yellow.	
	( )		at percentage of the roses are yellow?	
		•••••		
			Answer %	(2 marks)

4 Aaron thinks that when you square a whole number you always get an even numb					
	Give	e an example to show that Aaron is wrong.			
	•••••				
			(,		
5		ne Czech Republic, Boris pays 922 korunas for a meal. exchange rate is 49.1 korunas to £1.			
	Wha	at is the cost of the meal in pounds?			
	•••••				
	•••••				
		Answer £	(2 marks)		
6	(a)	Find the value of $\frac{1}{0.5^2}$			
		Answer	(2 marks)		
	(b)	Use your calculator to find the value of $\frac{29.45 - 7.92}{14.32 + 6.51}$			
		Give your answer to an appropriate degree of accuracy.			
		Answer	(2 marks)		

	Answer	(2 marks)
	How many chocolates does Sophie have?	
8	Craig and Sophie share 40 chocolates.  They divide them in the ratio 1:4 with Sophie having the larger share.	
	Answer £	(4 marks)
	What is the cost of 1kg of apples? Show your working.	
7	Nicole buys 2.3 kg of apples and 1.8 kg of plums.  She pays £7.18 in total.  The plums cost £2.20 per kg.	

## END OF SECTION A



Surname	Other Names			
Centre Number	Candi	date Number		
Candidate Signature				

General Certificate of Secondary Education March 2004

# ASSESSMENT and QUALIFICATIONS ALLIANCE

# MATHEMATICS (MODULAR) (SPECIFICATION B) 33003/FB Module 3 Foundation Tier Section B

Thursday 4 March 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.

9	Liam	wants to calculate $\frac{27.89 + 20.17}{3.91}$
	(a)	Write each of the numbers in Liam's calculation to the nearest whole number.
		Answer
	(b)	Use your numbers from part (a) to estimate the answer to Liam's calculation.
		Answer
10		s making some four digit numbers. number contains all the digits 3, 8, 2 and 4.
	(a)	Write down the smallest number Kim can make.
		Answer (1 mark)
	(b)	Write down the largest odd number Kim can make.
		Answer

11	Here	e is a list of n	umbers						
		7	9	14	17	23	27	36	
	(a)	Write down	the ev	en num	bers.				
			•••••	••••••	•••••	•••••			
				Answer	•	•••••	•••••		(1 mark)
	(b)	Write down	the cu	be num	ber.				
				Answer					(1 mark)

## TURN OVER FOR THE NEXT QUESTION



Wor	k out
(a)	500 – 148
	Answer (2 marks)
(b)	$243 \times 52$
	Answer (3 marks)
(c)	903 ÷ 43
	Answer (3 marks)

**12** 

13	Work	0114
	VV() K	( )

(a)	$\frac{2}{5} \times \frac{1}{4}$		
(b)	$\frac{3}{4} - \frac{1}{5}$	Answer	(1 mark)

Answer .....

## TURN OVER FOR THE NEXT QUESTION

(2 marks)

(3 marks)

14 Packets of chocolate biscuits are sold in two sizes.

	Standard Packet Contents 12 biscuits £1.09		Large Packet Contents 36 biscuits	
	Which size is the better value	for money?		
	You <b>must</b> show your working.			
	Answ	er		(2 marks)
15	A trader pays £14.80 for 20 me	elons.		
	How much does he pay for on	e melon?		

Answer .....

16 Abby sees the same model of digital camera for sale in two different shops.

# DIGICAM Our Price 15% off Normal Price

of £288

Pictures4u
Our Price

1/6 off Normal Price
of £288

Calc	ulate the final cost	of the camera from	
(a)	Digicam,		
		Answer £	(3 marks)
(b)	Pictures4u.		
		Answer f	(3 marks)

**END OF QUESTIONS**