Surname	Oth	er Names				
Centre Number			Candid	ate Number		
Candidate Signature						

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ALLIANCE

General Certificate of Secondary Education June 2006

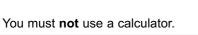
#### MATHEMATICS (MODULAR) (SPECIFICATION B) Module 3 Foundation Tier Section B

33003/FB

Wednesday 28 June 2006 9.45 am to 10.25 am

### For this paper you must have:

· mathematical instruments





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.
- Answer the questions in the spaces provided.
- Do all rough work in this book.
- 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.
- The marks for questions are shown in brackets.
- You may ask for more answer paper. This must be tagged securely to this answer book.

### **Advice**

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

# Answer all questions in the spaces provided.

8	Here	is a list o	f numbers.						
			35	81	92	8	64	60	
	(a)	Write do	wn <b>two</b> nu	mbers fro	m the list v	which ad	d up to 100	).	
			Answer			a	nd		(1 mark)
	(b)	Write do	wn an odd	number f	from the list				
			Answer			•••••			(1 mark)
	(c)	Write do	wn <b>two</b> sq	uare numl	bers from the	ne list.			
			Answer			a	nd		(2 marks)
	(d)	Which n	umber fron	n the list i	is closest to	48?			
								•••••	
			Answer						(1 mark)
	(e)	Work ou	t the larges	st total tha	t can be ma	ide by a	dding three	different nu	imbers from the
			Answer						(2 marks)

9	Worl	c out
	(a)	$18 \times 5$
		Answer (1 mark)
	(b)	144 ÷ 6
		Answer
		Allower(1 mark)
10	Find	25% of 56.
	•••••	
	•••••	Answer
11	(a)	Work out 1300 divided by 52.
		Answer
	(b)	1250 students and 50 teachers from a school go to a theme park. They travel in coaches with 52 seats.
		How many coaches are needed?
		Answer

12 (	(a)	Write down the answer to	$7^2$			
		Answer	•••••	•••••		(1 mark)
(	b)	Estimate the answer to $\sqrt{3}$				
						(1 mark)
13 (	(a)	Which of these numbers is 0.365	s the largest?	0.84	0.17	
		Answer				(1 mark)
(	b)	Which of these numbers is	s the smalles	t?		
		0.365	0.009	0.084	0.107	
		Answer				(1 mark)

14	(a)	Work out	$\frac{7}{8} - \frac{1}{4}$			
		•••••		•••••	•••••	 
			Answer			 (2 marks)
	(b)	Work out	2.7 – 1.88			
			Answer			 (1 mark)
	(c)	Work out	$0.4 \times 0.2$			
			Answer			 (1 mark)

write	/9%	0.8	4	in order, starting with the smallest.
You must	show your	working.		
•••••			•••••	

16	A canal boat travels 6 miles in 1 hour 30 minutes.							
	Calculate the average speed of the boat.							
	Give your answer in miles per hour.							
	Answer miles per hour (3 marks)							
17	Laura has two dogs, Bertie and Bromley.							
	Bertie eats $\frac{1}{3}$ of a tin of dog food every day.							
	Bromley eats $\frac{1}{2}$ of a tin of the same dog food every day.							
	What is the least number of tins of dog food needed to feed the dogs for seven days?							
	Answer							
	(6 1141 116)							

END OF QUESTIONS

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