

Surname					Other Names				
Centre Number					Candidate Number				
Candidate Signature									

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General Certificate of Secondary Education
November 2003



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

33003/FA

F

Wednesday 19 November 2003 9.00 am to 9.40 am

<p>In addition to this paper you will require:</p> <ul style="list-style-type: none"> • a calculator • mathematical instruments • a treasury tag. 	
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For Examiner's Use			
Section A		Section B	
Pages	Mark	Pages	Mark
2 – 3		2 – 3	
4 – 5		4 – 5	
6 – 7		6 – 7	
8		8	
Total Section A			
Total Section B			
TOTAL			
Examiner's Initials			

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

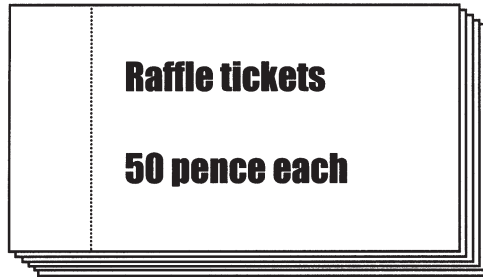
- In all calculations, show clearly how you work out your answer.

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33003/FA

Answer **all** questions in the spaces provided.

1



Kathy sells 3 books of raffle tickets.
There are 10 tickets in each book.

(a) How many tickets does she sell?

.....
.....

Answer (1 mark)

(b) How much money does she receive from selling these tickets?

.....
.....

Answer £ (2 marks)

2 The table below shows the medals won by some countries in the 2000 Olympics.

		Number of medals		
		gold	silver	bronze
Country	USA	40	24	33
	Russia	32	28	28
	Australia		17	58
	Great Britain	11	7	28

(a) Australia won half the number of gold medals that Russia won.

How many gold medals did Australia win?

.....

Answer (1 mark)

(b) How many medals did Great Britain win altogether?

.....

Answer (1 mark)

(c) A gold medal scores 3 points, a silver medal scores 2 points and a bronze medal scores 1 point.

How many points did the USA score altogether?

.....

.....

.....

.....

Answer (3 marks)

3 (a) A restaurant charges 70p for a glass of water.

(i) What is the cost of 5 glasses of water?

.....
.....

Answer £ (2 marks)

(ii) A bottle of water fills 5 glasses.
The bottle of water costs £3.

How much cheaper is it to buy a bottle of water than 5 separate glasses?

.....
.....

Answer pence (1 mark)

(b) Six people spend £76.50 in total on a meal.
They share the cost equally.

How much does each person pay?

.....
.....

Answer £ (2 marks)

- 4 (a) Salma is 1.42 metres tall.
Jane is 3 centimetres taller than Salma.

Work out Jane's height in metres.

.....

Answer metres (1 mark)

- (b) Paul's height is 160 centimetres.
During one year, his height increases by 5%.

Work out the increase in Paul's height.

.....

.....

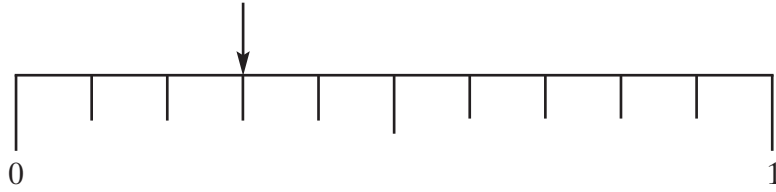
Answer centimetres (2 marks)

TURN OVER FOR THE NEXT QUESTION

Turn over 



5 The diagram shows a number line.



(a) Write down the number shown by the arrow.

.....

Answer (1 mark)

(b) Draw an arrow on the diagram to show the position of the number 0.75

(1 mark)

6 (a) Work out $12 - (3 + 7)$

.....

Answer (1 mark)

(b) Put brackets in each of these calculations to make them correct.

(i) $18 - 4 - 2 = 16$

(ii) $3 + 4 \times 5 = 35$

(2 marks)

- 7 The total cost of four books is £21.56
Postage is £1.13 for each book.

Show that the total cost of the books and the postage is £26.08

.....

.....

.....

.....

(2 marks)

- 8 Bill changes £27 into Swiss francs.
The exchange rate is £1 to 1.55 Swiss francs.

How many Swiss francs does he receive?

.....

.....

Answer Swiss francs (2 marks)

- 9 The price of a computer is £840.
In a sale the price is reduced by 15%.

What is the sale price?

.....

.....

Answer £ (3 marks)

Turn over ▶

10 The total number of marks for a test is 40.

(a) The marks are divided between Section A and Section B in the ratio 4 : 1

How many marks are there for Section A?

.....
.....

Answer (2 marks)

(b) Shahid gains 24 marks out of 40 in the test.

Work out his mark as a percentage.

.....
.....

Answer % (2 marks)

END OF SECTION A

Surname					Other Names				
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General Certificate of Secondary Education
November 2003




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

33003/FB

F

Wednesday 19 November 2003 9.45 am to 10.25 am

<p>In addition to this paper you will require: mathematical instruments. You must not use a calculator.</p>	
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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.

- 11** (a) Write the number 2163 in words.

Answer

.....
(1 mark)

- (b) Write 5367 to the nearest hundred.

.....

Answer (1 mark)

- (c) Here are four number cards.



Rearrange the cards to make the biggest possible number.

.....
.....

Answer (1 mark)

(d) Arrange these numbers in order of size, starting with the smallest.

- one million
- four hundred and fifty thousand
- half a million
- twenty five thousand

.....
.....

Answer

.....
.....
.....

(2 marks)

(e) What is the value of the digit 8 in the number 57830?

.....

Answer (1 mark)

12 Circle each number that is less than one half.

- 0.21 52% $\frac{1}{3}$ 0.78 $\frac{3}{4}$ 35%

.....
.....

(3 marks)

Turn over 



13 The table shows the number of pupils in a school.

Boys	933
Girls	857

(a) How many pupils are there altogether?

.....
.....

Answer (1 mark)

(b) How many more boys are there than girls?

.....
.....

Answer (2 marks)

14 Work out 70% of 90.

.....
.....
.....

Answer (2 marks)

15 Pencils cost 35 pence each.
Sue buys as many pencils as she can for £4.

(a) How many pencils does she buy?

.....
.....
.....
.....

Answer (2 marks)

(b) Sue pays with four £1 coins.

How much change does she receive?

.....
.....
.....

Answer pence (2 marks)

Turn over 



16 Work out

(a) 0.3×0.1

.....
.....

Answer (1 mark)

(b) $\frac{1}{6} \times \frac{3}{5}$

.....
.....

Answer (1 mark)

(c) $2^3 + 7^2$

.....
.....

Answer (2 marks)

17 (a) The odd number 9 can be written as the sum of two consecutive numbers: $9 = 4 + 5$
Write the number 45 as the sum of two consecutive numbers.

.....
.....

Answer 45 = (2 marks)

(b) Gavin says that when you add two odd numbers the answer is always an odd number.

Give an example to show that Gavin is wrong.

.....
.....

Answer (1 mark)

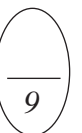
18 A pile of 20 sheets of card is 1 cm high.

How high is a pile of 50 sheets of card?

.....
.....
.....

Answer cm (2 marks)

Turn over ▶



- 19** Brian travels 150 miles in 3 hours.
Clive travels 110 miles in 2 hours.

Who is travelling faster?
You **must** show all your working.

.....

.....

.....

.....

.....

(3 marks)

- 20** Estimate the value of 198×40.3

.....

.....

.....

Answer (2 marks)

END OF QUESTIONS