

Surname					Other Names				
Centre Number					Candidate Number				
Candidate Signature									

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General Certificate of Secondary Education
November 2005



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

33003/FA

F

Monday 14 November 2005 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	
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 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.

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

1 Complete the bill below.

	£	p
3 packets of soap @ £1.30 each		
2 toothbrushes @ £1.99 each		
1 hairbrush @ £5.99	5	99
2 packets of tissues @ £1.40 each		
Total		

(4 marks)

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2 (a) Write 7528 in words.

Answer

.....

(1 mark)

(b) Write 7528 to the nearest 100.

Answer (1 mark)

(c) Write down **two** consecutive numbers.

Answer and (1 mark)

3 (a) The temperatures in a number of towns in Turkey on one day in December were

11°C -15°C -7°C -4°C 2°C 12°C -3°C

(i) Write down the coldest of these temperatures.

.....

Answer °C (1 mark)

(ii) Write down the warmest of these temperatures.

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Answer °C (1 mark)

(b) The temperature in Istanbul at 4 pm was 1°C.
At midnight this temperature had fallen by 7°C.

What was the temperature at midnight?

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.....

Answer °C (1 mark)

4 Write 39.468

(a) to the nearest whole number,

.....

Answer (1 mark)

(b) to one decimal place.

.....

Answer (1 mark)

- 5 (a) What does the digit 4 represent in the number 3429?

.....

Answer (1 mark)

- (b) The number 3429 is multiplied by 10.

In the new number, what does the digit 3 represent?

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Answer (1 mark)

- 6 In one week 600 people went to a leisure centre.

- (a) Of these 600 people, 40% went on Saturday.

How many people went on Saturday?

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.....

Answer (2 marks)

- (b) Of these 600 people, $\frac{1}{4}$ went on Sunday.

How many went on Sunday?

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.....

Answer (2 marks)

- 7 Jill buys 3 lettuces and 1.75 kg of tomatoes.
She spends £2.92 in total.
Each lettuce costs 60p.

Find the cost of 1 kg of tomatoes.

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.....

Answer pence (4 marks)

- 8 Use your calculator to work out $\frac{1}{0.2^2}$

.....
.....

Answer (2 marks)

TURN OVER FOR THE NEXT QUESTION

9 Sally drove 120 miles at an average speed of 50 mph.

Calculate the time taken for this journey.

Give your answer in hours and minutes.

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Answer hours minutes (4 marks)

10 Here is a method for multiplying a whole number by 101.

Step 1: put two zeros onto the right hand side of the number.

Step 2: add on the original number.

Use an example to show why this method works.

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(2 marks)

11 Two friends, Alice and Kevin, eat 35 chocolates in the ratio 1 : 4
Kevin eats more chocolates than Alice.

How many chocolates does Kevin eat?

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.....

Answer (2 marks)

END OF SECTION A

Surname		Other Names	
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General Certificate of Secondary Education
November 2005



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

33003/FB

F

Monday 14 November 2005 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 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.

12 (a) Giant tubes of fruit gums cost £1.50

How many giant tubes can Helen buy for £10?

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Answer (2 marks)

(b) Carl spends £2.43 on sweets.
He pays with one £10 note.

(i) How much change does Carl receive?

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Answer £ (1 mark)

(ii) This change is given using the smallest number of notes and coins possible.

How is the change given?

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Answer

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..... (2 marks)

13 A multipack contains eight bags of chocolate buttons.

(a) How many bags of chocolate buttons are there in four multipacks?

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.....

Answer (2 marks)

(b) A multipack costs £2.56

How much is each bag of chocolate buttons?

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.....

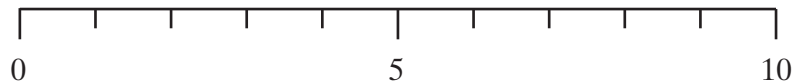
Answer pence (2 marks)

14 (a) Estimate the value of 79×5.1

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Answer (2 marks)

(b) Draw an arrow to show 6.5 on the number line.



(1 mark)

Turn over

15 Work out

(a) 247×32

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Answer (3 marks)

(b) $966 \div 42$

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Answer (3 marks)

16 Greg buys 30 pencils for £6.

What is the cost of one pencil?
State the units of your answer.

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Answer (3 marks)

17 The same type of crystal glasses is sold in two different packs.

Small pack
Contents
4 glasses

£3.20

Large pack
Contents
12 glasses

£10.20

Which size is the better value for money?

You **must** show your working.

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Answer (2 marks)

Turn over 

- 18** Yasmin worked for $4\frac{1}{2}$ hours each day.
In one week she worked 6 days and was paid £10 per hour.

How much did Yasmin earn in that week?

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Answer £ (3 marks)

19 Ben wants to buy a football shirt.
He sees two advertisements for the shirt.

**SUPERSPORT
SAVERS**

Genuine Football Shirt

$\frac{1}{6}$ OFF

**recommended price
of £42**

Soccer Supplies

*Get your football shirt
here!*

20% off

**recommended retail price
of £42**

(a) Find the cost of the shirt at Supersport Savers.

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Answer £ (3 marks)

(b) Find the cost of the shirt at Soccer Supplies.

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Answer £ (3 marks)

END OF QUESTIONS

THERE ARE NO QUESTIONS PRINTED ON THIS PAGE