

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use

General Certificate of Secondary Education
March 2007



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

43003/FA

F
TWO TIER

Monday 5 March 2007 9.00 am to 9.40 am

<p>For this paper you must have:</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	
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.
- Answer the questions in the spaces provided.
- Use a calculator where appropriate.
- Do all rough work in this book.
- 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.
- 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.

- 1 (a) Write five thousand in figures.

Answer (1 mark)

- (b) Circle the **three** numbers below that round to five thousand to the nearest thousand.

5347 50 001 4982 475 5512 4479 4500

(3 marks)

- 2 Here are five digits 4 1 6 9 3

- (a) Use all of the digits to make the largest possible number.

Answer (1 mark)

- (b) Use three of the digits to make an odd number.

Answer (1 mark)

- (c) Use two of the digits to make a square number.

Answer (1 mark)

- (d) Use some of the digits to make a number between 800 and 1000.

Answer (1 mark)

- (e) Use some of the digits to make **two** numbers that add up to 50.

Answer and (1 mark)

- (f) Use some of the digits to make **two** numbers with a difference of 15.

Answer and (1 mark)

3 Work out the value of $\pounds 200 - \pounds 148.40$

(a) Give your answer in pounds.

Answer \pounds (1 mark)

(b) Give your answer in pence.

Answer pence (1 mark)

4 In a field there are 40 animals.

(a) Three out of every ten of the animals are sheep.

How many animals are sheep?

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.....

Answer (2 marks)

(b) Connie says $\frac{2}{3}$ of the animals are cows.

Explain why Connie must be wrong.

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

(1 mark)

5 Work out 28% of 32

.....
.....

Answer (2 marks)

6 David, Gareth and Kerry share out the contents of a jar of 600 sweets.

David receives $\frac{1}{4}$ of the sweets.

Gareth receives $\frac{5}{8}$ of the sweets.

What fraction of the sweets are left in the jar for Kerry?

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Answer (4 marks)

7 Work out $7.5^2 + 0.4^3$

(a) Write down your full calculator display.

.....

Answer (1 mark)

(b) Write your answer to one decimal place.

Answer (1 mark)

8 Paul is paid £5 per hour.

(a) One day Paul works for 4 hours 15 minutes.

Calculate his total pay.

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.....
.....

Answer £ (2 marks)

(b) Shelley is paid 50% more per hour than Paul.

One day Shelley earned £48.75

How long did she work during that day?

Give your answer in hours and minutes.

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

Answer hours minutes (4 marks)

9 The price of a roll of film is reduced from £4 to £3.50

Calculate the reduction as a percentage of the original price.

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.....

Answer % (3 marks)

END OF SECTION A

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General Certificate of Secondary Education
March 2007



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

43003/FB

F
TWO TIER

Monday 5 March 2007 9.45 am to 10.25 am

<p>For this paper you must have:</p> <ul style="list-style-type: none"> mathematical instruments. <p>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.
- 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.

10 Fill in the boxes.

(a) $8 \times 4 = \square$ (1 mark)

(b) $32 + 59 = \square$ (1 mark)

(c) $37 - 18 = \square$ (1 mark)

(d) $70 \div \square = 10$ (1 mark)

(e) $48 \square 12 = 4$ (1 mark)

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11 (a) Work out 40×20

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Answer (1 mark)

(b) Work out $810 \div 6$

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Answer (2 marks)

(c) Work out 36×24

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Answer (3 marks)

Turn over for the next question

12 In a quiz there are ten questions.
Each correct answer gains five points.
Each wrong answer loses two points.

(a) Liz gave ten correct answers.

How many points did she get altogether?

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.....

Answer (1 mark)

(b) Glen gave seven correct answers and three wrong answers.

How many points did he get altogether?

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.....

Answer (3 marks)

(c) Iqbal answered all ten questions.

Explain how Iqbal could get 43 points altogether.

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

(2 marks)

- 13 (a) Which is larger, $\frac{7}{8}$ or 78% ?

Give a reason for your answer.

Answer

Reason

.....
.....

(2 marks)

- (b) Work out $\frac{3}{8} \times \frac{2}{9}$

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.....

Answer (1 mark)

- 14 Estimate the value of 7.9^2

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Answer (2 marks)

15 A snail travels 80 metres in 20 hours.

Find the average speed of the snail in

(a) metres per hour

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.....

Answer metres per hour (2 marks)

(b) metres per day.

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.....

Answer metres per day (2 marks)

16 Divide £8000 in the ratio 5 : 3 : 2

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.....

Answer £ £ £ (3 marks)

- 17 People in the country of Brownland have to pay income tax on the money they earn as shown.

Earnings (£)	Tax to pay
0 – 5000	NIL
Over 5000	20% on all earnings over £5000

Examples	
Earnings (£)	Tax to pay
4000	NIL
13 000	20% of £8000

Lynn earns £28 000.

Work out the amount of tax that Lynn pays.

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Answer £ (3 marks)

END OF QUESTIONS

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