

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

33003/FA
F

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	
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 £200 – £148.40

(a) Give your answer in pounds.

Answer £ (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?

.....
.....

Answer (2 marks)

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

Explain why Connie must be wrong.

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

(1 mark)

5 Wes wants to hire a chainsaw.

The cost is £25 plus an extra £3.50 per day.

Calculate the cost of hiring a chainsaw for 5 days.

.....
.....

Answer £ (3 marks)

6 Work out 28% of 32

.....

Answer (2 marks)

7 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?

.....

.....

Answer (4 marks)

8 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)

9 Paul is paid £5 per hour.

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

Calculate his total pay.

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

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)

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

33003/FB
F

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) Write $\frac{1}{4}$ as a decimal.

Answer (1 mark)

(b) Write 0.6 as a fraction.

Answer (1 mark)

(c) Write 45% as a fraction.

Answer (1 mark)

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?

.....
.....

Answer (1 mark)

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

How many points did he get altogether?

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

Answer (3 marks)

(c) Iqbal answered all ten questions.

Explain how Iqbal could get 43 points altogether.

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

(2 marks)

13 (a) Work out 40×20

.....

Answer (1 mark)

(b) Work out $810 \div 6$

.....

.....

.....

Answer (2 marks)

(c) Work out 36×24

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.....

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.....

.....

Answer (3 marks)

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

Give a reason for your answer.

Answer

Reason

.....

.....

(2 marks)

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

.....

.....

.....

Answer (1 mark)

- 15 Estimate the value of 7.9^2

.....

.....

Answer (2 marks)

16 A snail travels 80 metres in 20 hours.

Find the average speed of the snail in

(a) metres per hour

.....

Answer metres per hour (2 marks)

(b) metres per day.

.....

Answer metres per day (2 marks)

17 You are given that $372 \times 51 = 18972$

Use this information to find the answers to

(a) 3720×51

Answer (1 mark)

(b) $18972 \div 5.1$

Answer (1 mark)

(c) 372×102

.....

Answer (1 mark)

END OF QUESTIONS

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