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For Examiner's Use

General Certificate of Secondary Education
June 2008



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

43003/FA
F

Tuesday 24 June 2008 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		6	
Total Section A			
Total Section B			
TOTAL			
Examiner's Initials			

Time allowed for Section A: 40 minutes

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Answers written in margins or on blank pages will not be marked.
- 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.



J U N 0 8 4 3 0 0 3 F A 0 1

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

- 1 The diagram shows three equal rectangles.



- 1 (a) (i) What fraction of the diagram is shaded?

Answer (1 mark)

- 1 (a) (ii) Sam says that more than half of the shape is **not** shaded.

Is he correct?
Circle the answer.

Yes

No

(1 mark)

- 1 (b) Which fraction is larger, $\frac{1}{2}$ or $\frac{1}{3}$?

Circle the answer.

$\frac{1}{2}$

$\frac{1}{3}$

(1 mark)



2 Look at this list of numbers.

3085

20 176

5476

909

13 860

2 (a) Which is the largest number in the list?

Answer (1 mark)

2 (b) Write your answer to part (a) in words.

.....

..... (1 mark)

2 (c) Multiply together the two odd numbers from the list.

.....

Answer (2 marks)

2 (d) Which **two** of the numbers in the list are multiples of 5?

Answer and (2 marks)

2 (e) Which of the numbers in the list is equal to 74 squared?

Answer (1 mark)

3 Complete the table.

Fraction	Decimal	Percentage
$\frac{9}{100}$	0.09	
	0.15	15%
$\frac{4}{5}$		80%

(3 marks)



- 4 Linda had £100 with her when she went shopping.
She bought

5 DVDs	at	£8.99 each
2 dresses	at	£21.45 each
1 bag	at	£9.99

How much money did she have left after she bought these goods?

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

Answer £ (4 marks)

- 5 Calculate 47% of 58.

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

Answer (2 marks)



6 Matt is going on holiday to Jordan.
The currency of Jordan is the dinar.
£1 = 1.25 dinar

6 (a) Matt changes £500 into dinar.

How many dinar does Matt receive?

.....
.....

Answer dinar (2 marks)

6 (b) After the holiday Matt has 47.50 dinar left.

Convert 47.50 dinar into pounds.

.....
.....

Answer £ (2 marks)

7 Calculate $\frac{5.6 \times 7.8}{4.3 - 2.1}$

.....
.....

7 (a) Write down your full calculator display.

Answer (1 mark)

7 (b) Write your answer to part (a) to one decimal place.

Answer (1 mark)

7 (c) Insert brackets in

$$5.6 \times 7.8 \div 4.3 - 2.1$$

so that it is equal to $\frac{5.6 \times 7.8}{4.3 - 2.1}$

(1 mark)



8 There are 126 people at a party.
The ratio of adults to children at the party is 1 : 6

8 (a) How many adults and children are there?

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

Answer Adults

 Children (3 marks)

8 (b) Nine more adults arrive.

Including these adults, what is the new ratio of adults to children?
Give your answer in the form 1 : k , where k is to be found.

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

Answer (3 marks)

END OF SECTION A



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General Certificate of Secondary Education
June 2008



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

43003/FB
F

Tuesday 24 June 2008 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 black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Answers written in margins or on blank pages will not be marked.
- 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.



J U N 0 8 4 3 0 0 3 F B 0 1

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

9 Work out

9 (a) $639 + 874$

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

Answer (2 marks)

9 (b) $1100 - 582$

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

Answer (2 marks)

9 (c) $108 \div 4$

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

Answer (1 mark)

9 (d) $\frac{3}{8}$ of 48

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

Answer (2 marks)



- 10** Insert operations to make the calculations correct.
Choose from +, – and ×.

Example 3 4 5 = 7

Answer 3 × 4 – 5 = 7

- 10** (a) 3 4 5 = 2 (1 mark)

- 10** (b) 3 4 5 = 17 (1 mark)

- 11** Estimate the value of 198×3.1

.....
.....

Answer (2 marks)

- 12** In each list, put the numbers in order starting with the smallest.

- 12** (a) 0.65 0.8 0.334

.....

Answer (1 mark)

- 12** (b) –8 6 –5 2.5

.....

Answer (2 marks)



- 13** 1475 people queue for a fairground ride.
The ride takes 35 people each time.

How many times does the ride go so that everyone gets a ride?

.....

Answer (4 marks)

- 14** You are given that 1 billion = 1000 million.
In the 2005/2006 football season the total income from broadcasting for the Premier League clubs was £501 837 248.

Is the total income more than half a billion pounds?
You **must** explain your answer.

.....

(2 marks)

- 15** Work out

- 15** (a) the cube of 3

.....

Answer (1 mark)

- 15** (b) 0.1×0.2

.....

Answer (1 mark)



16 You are given that $\frac{34\,888}{98} = 356$

Write down the value of

16 (a) 356×980

Answer (1 mark)

16 (b) $\frac{34\,888}{9.8}$

Answer (1 mark)

17 Work out $\frac{3}{5} - \frac{2}{7}$

.....

.....

.....

Answer (2 marks)

18 Tom says that there are no numbers less than 100 which are both a square number and a cube number.

Find **two** examples to show that Tom is wrong.

.....

.....

.....

Answer and (2 marks)



19 (a) Write 36 as the product of prime factors.
Give your answer in index form.

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

Answer (3 marks)

19 (b) What is the Least Common Multiple (LCM) of 12 and 36?

.....

Answer (1 mark)

END OF QUESTIONS



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