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For Examiner's Use

General Certificate of Secondary Education
November 2009




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

43053/FA

F

Friday 13 November 2009 9.00 am to 9.45 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		6–7	
Total Section A			
Total Section B			
TOTAL			
Examiner's Initials			

Time allowed for Section A: 45 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 45 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 35.
- 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 the number nine thousand and four in figures.

Answer (1 mark)

- 1 (b) Write the number 0.35 in words.

Answer (1 mark)

- 1 (c) Convert 270 pence to pounds.

Answer £ (1 mark)

- 2 Here is a list of numbers.

25 40 15 12 5

From the list, write down

- 2 (a) a multiple of 6

Answer (1 mark)

- 2 (b) a factor of 20

Answer (1 mark)

- 2 (c) a square number

Answer (1 mark)

- 2 (d) a number that rounded to the nearest 10 gives an answer of 20

Answer (1 mark)

- 2 (e) a number that is 10 times bigger than $2\frac{1}{2}$.

Answer (1 mark)



3 The cost of some items in a café is shown.

Item	Cost
Sausage	30p
Slice of bacon	25p
Fried egg	
Portion of beans	40p

3 (a) Frank buys a sausage, a slice of bacon and a portion of beans.

Work out the total cost.

.....

Answerp (2 marks)

3 (b) Selina buys two sausages and a fried egg.
 She pays with a two-pound coin.
 She receives 90p change.

What is the cost of a fried egg?

.....

Answerp (3 marks)



- 4 (a) Four out of every five members of a running club are men.
The club has 240 members.

How many are men?

.....
.....

Answer (2 marks)

- 4 (b) Membership fees are £3 each month.

Show that the total paid in one year by all 240 members is £8640.

.....
.....

(2 marks)

- 4 (c) The following year the club needs £10 000 from membership fees.
The number of members is expected to increase by 10%.

Work out the new monthly fee required, assuming membership increases as expected.

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.....
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Answer £..... (5 marks)



5 (a) Explain why the cube of 5 is equal to 125.

.....
(1 mark)

5 (b) Calculate 6^3

.....
Answer (1 mark)

5 (c) Is 196 a cube number?
Explain your answer.

.....
.....
(1 mark)

5 (d) Find **one** number which is both a square number and a cube number.

.....
.....
Answer (1 mark)

Turn over for the next question



6 Shampoo is on sale in three sizes of bottle.

Small



100 ml

79p

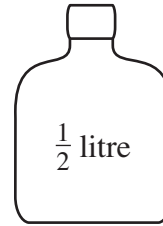
Medium



300 ml

£1.99

Large



$\frac{1}{2}$ litre

£3.49

Which size of bottle is best value?

You **must** show your working.

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Answer (4 marks)

7 Hernie has £35 in her purse, to the nearest £5.

7 (a) What is the least amount Hernie could have in her purse?

Answer £ (1 mark)

7 (b) What is the greatest amount Hernie could have in her purse?

Answer £ (1 mark)



8 In a sale, a settee is advertised with 60% off the original price of £800.
For one day only, the settee is offered with an extra 20% off the sale price.

Show that the total saving is the same as 68% off the original price.

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(3 marks)

END OF SECTION A



There are no questions printed on this page

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ANSWER IN THE SPACES PROVIDED**

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