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Centre Number						Candidate Number					
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For Examiner's Use
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General Certificate of Secondary Education  
November 2008



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

**43003/FA**  
**F**

Thursday 13 November 2008 9.00 am to 9.40 am

<p><b>For this paper you must have:</b></p> <ul style="list-style-type: none"> <li>• a calculator</li> <li>• mathematical instruments</li> <li>• a treasury tag.</li> </ul>	
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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.



N 0 V 0 8 4 3 0 0 3 F A 0 1

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

1 (a) Write 40 000 in words.

Answer ..... (1 mark)

1 (b) Write one thousand and one in figures.

Answer ..... (1 mark)

1 (c) Write these numbers in order of size.  
Start with the largest.

5302      5290      5310

Answer ..... (1 mark)

2 A bakery sells cakes in boxes of six.  
One box costs £2.76

2 (a) Vic buys eight boxes for a party.

2 (a) (i) Work out the cost of eight boxes.

.....

Answer £ ..... (2 marks)

2 (a) (ii) Nine of the cakes were **not** eaten at the party.

How many cakes were eaten at the party?

.....

.....

Answer ..... (2 marks)



- 2 (b) Nina buys one box of cakes for £2.76  
She pays with exactly five coins.

List the five coins.

.....  
.....

Answer ..... (1 mark)

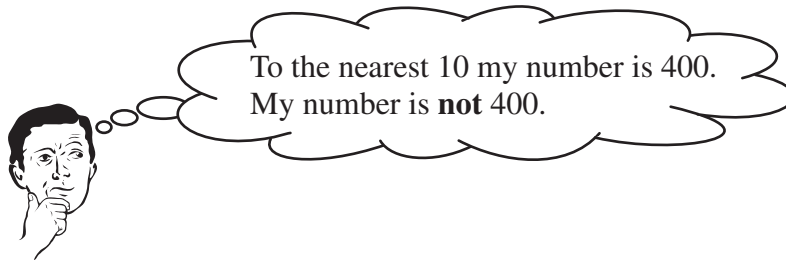
- 3 (a) Round 272 to the nearest 10.

Answer ..... (1 mark)

- 3 (b) Round 272 to the nearest 100.

Answer ..... (1 mark)

- 3 (c) Manish is thinking of a number.



Manish is correct.

What could his number be?

Answer ..... (1 mark)



4 There are 175 pupils in Year 10 at a school.

4 (a)  $\frac{2}{5}$  of these pupils own a dog.

How many pupils in Year 10 own a dog?

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

Answer ..... (2 marks)

4 (b) Alice says that exactly half of the Year 10 pupils are boys.

Explain why Alice must be wrong.

.....  
.....

(1 mark)

4 (c) The number of pupils in Year 10 is one-eighth of the total number of pupils in the school.

Work out the total number of pupils in the school.

.....  
.....

Answer ..... (2 marks)

5 Work out 35% of 620.

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

Answer ..... (2 marks)



**6** Pat stands on some weighing scales.  
He is holding three identical parcels.  
Pat and the three parcels weigh 64.3 kilograms.  
Pat weighs 57.4 kilograms.

Work out the weight of one parcel.

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

Answer ..... kg (3 marks)

**7** (a) (i) Calculate  $168^2$

Answer ..... (1 mark)

**7** (a) (ii) Write your answer to part (i) to one significant figure.

Answer ..... (1 mark)

**7** (b) Calculate the cube root of 216.

Answer ..... (1 mark)



8 Two shades of pink paint are made by mixing red and white paint as shown.

Shade	red : white
Blushing Pink	3 : 1
Dusky Pink	3 : 2

8 (a) What percentage of Blushing Pink is red paint?

.....  
 .....

Answer ..... % (2 marks)

8 (b) How much red paint is needed to make 20 000 litres of Dusky Pink?

.....  
 .....

Answer ..... litres (2 marks)

9 (a) The price of a LCD TV is £1200.  
 In a sale the price is reduced to 85% of this price.

Work out the new price.

.....  
 .....

Answer £ ..... (2 marks)

9 (b) The price of a games console is £240.  
 In a sale the price is decreased by £18.

Work out the decrease as a percentage of the price before the sale.

.....  
 .....

Answer ..... % (2 marks)

**END OF SECTION A**



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General Certificate of Secondary Education  
November 2008



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

**43003/FB  
F**

Thursday 13 November 2008 9.45 am to 10.25 am

<p><b>For this paper you must have:</b></p> <ul style="list-style-type: none"> <li>mathematical instruments.</li> </ul> <p>You must <b>not</b> 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.



N 0 V 0 8 4 3 0 0 3 F B 0 1

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

**10** Complete this bill from a café.

4 orange juices at £2 each	£
3 sandwiches at £2.50 each	£
4 chocolate bars at 45p each	£
<b>Total</b>	£

.....

.....

.....

.....

(4 marks)

**11** Here is a list of numbers.

12    8    16    3    19    36

**11** (a) Write down **three** numbers from the list that add up to 30.

.....

.....

Answer ..... (1 mark)

**11** (b) Write down **one** number from the list that is a square number.

Answer ..... (1 mark)

**11** (c) Write down the number from the list that is a factor of 40.

Answer ..... (1 mark)



**12** Complete the following.

**12** (a)  $2958 \times \boxed{\phantom{0000}} = 0$  (1 mark)

**12** (b)  $362 \div \boxed{\phantom{0000}} = 1$  (1 mark)

**12** (c)  $\frac{1}{2}$  of  $\boxed{\phantom{0000}} = 60$  (1 mark)

**12** (d)  $10^3 = \boxed{\phantom{0000}}$  (1 mark)

**12** (e)  $20 \div \boxed{\phantom{0000}} = -5$  (1 mark)

**13** Four tickets for a concert cost a total of £152.

Work out the cost of one ticket.

.....  
 .....

Answer £ ..... (2 marks)

**14** Sanjay's watch is five minutes fast.  
 Kyle's watch is eight minutes slow.

What time is shown on Kyle's watch when Sanjay's watch shows 14:07?

.....  
 .....

Answer ..... (2 marks)



**15** (a) Work out  $0.4 \times 0.1$

.....

Answer ..... (1 mark)

**15** (b) Work out  $7.8 - 2.47$

.....

.....

.....

Answer ..... (1 mark)

**15** (c) Work out  $247 \times 36$

.....

.....

.....

.....

.....

.....

Answer ..... (3 marks)

**16** Estimate the value of  $\frac{39.87}{0.49}$

.....

.....

Answer ..... (2 marks)



17 A cinema runs a Holiday Club.  
Holiday Club membership costs £10.

**Cost per visit to the cinema**  
Normal price £6  
Holiday Club price £3

Cara joins the Holiday Club.

What is the least number of visits that she needs to make so that her total cost is less than the normal price total cost?

You **must** show your working.

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

Answer ..... (3 marks)

18 Given that  $6.42 \times 54 = 346.68$

work out the value of  $6.42 \times 53$

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

Answer ..... (2 marks)



**19** Work out  $3\frac{2}{3} + 1\frac{2}{3}$

Give your answer as a mixed number in its simplest form.

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

Answer ..... (2 marks)

**20** Write 36 as the product of its prime factors.

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

Answer ..... (2 marks)

**END OF QUESTIONS**



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