

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use

General Certificate of Secondary Education
June 2007



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

43003/FA

F
TWO TIER

Wednesday 27 June 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		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 Here are four number cards.

6

2

8

5

They show the number 6285.

(a) Use the four cards to make the largest possible number.

.....

Answer (1 mark)

(b) (i) Use the four cards to make the smallest possible odd number.

.....

Answer (2 marks)

(ii) Write your answer to part (i) to the nearest hundred.

.....

Answer (1 mark)

(c) Work out $6 \times 2 \times 8 \times 5$

.....

Answer (1 mark)

2 Here is a list of prices in a computer shop.

Printer	£59.99
Ink cartridge	£21.58
Pack of A4 paper	£4.35

(a) Steve buys a printer and an ink cartridge.

How much does he pay in total?

.....

.....

Answer £ (1 mark)

(b) Ellen buys three ink cartridges.

How much does she pay in total?

.....

.....

Answer £ (2 marks)

(c) Rafia has £25.

Work out the greatest number of packs of A4 paper that she can buy.

.....

.....

Answer (2 marks)

3 (a) Work out $\frac{7}{8}$ of 32.

.....

.....

Answer (2 marks)

(b) Work out 3.7^2

Answer (1 mark)

4 The table shows information about a charity collection.

Coin	Number of coins	Value of coins
£1	2	£2.00
50p	6	£
20p	7	£1.40
10p	9	£0.90
5p	17	£
Total collected		£8.15

(a) Complete the table.

.....

.....

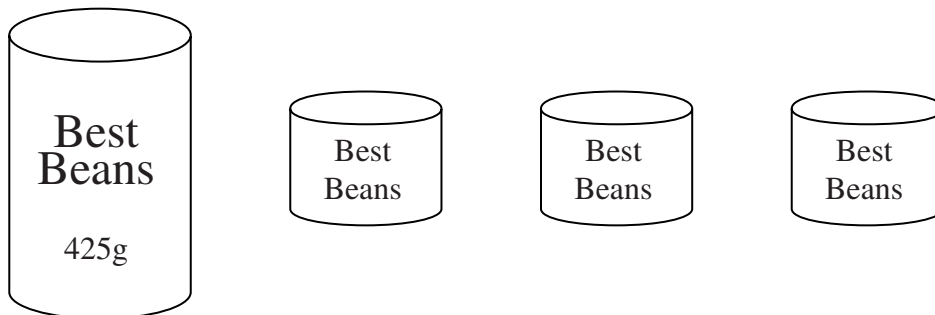
(2 marks)

(b) How much more needs to be collected to make the total £10?

.....

Answer £ (1 mark)

5 The total weight of one large and three small cans of Best Beans is 920 grams.
The large can weighs 425 grams.



Work out the weight of one small can.

.....

.....

.....

.....

Answer grams (3 marks)

6 A single room in a hotel in France costs 385 euros for one week.

- (a) If 1 euro = 68 pence, how much is 385 euros in £?
Give your answer to the nearest £.

.....

.....

.....

Answer £ (4 marks)

- (b) The cost of a single room increases by 12% when breakfast is included.

How many euros will it cost for a single room for one week when breakfast is included?

.....

.....

.....

.....

Answer euros (3 marks)

- (c) Sunil drives 164 kilometres to the hotel.
His journey takes $2\frac{1}{2}$ hours.

Work out his average speed.
Give your answer in kilometres per hour.

.....

.....

.....

.....

Answer kilometres per hour (2 marks)

- 7 (a) Alex weighs 43 kilograms to the nearest kilogram.

Write down her minimum weight.

.....

Answer kilograms (*1 mark*)

- (b) Alex's height is 130 centimetres to the nearest 10 centimetres.

Write down her minimum height.

.....

Answer centimetres (*1 mark*)

- 8 On Friday the ratio of the time Priya is sleeping to the time she is awake is 3 : 5
She is sleeping for less time than she is awake.

Work out the number of hours that she is sleeping on Friday.

.....

.....

.....

Answer hours (*2 marks*)

END OF SECTION A

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General Certificate of Secondary Education
June 2007



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

43003/FB

F
TWO TIER

Wednesday 27 June 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.

- 9 (a) Write down a number that is bigger than 100 but less than 200.

Answer (1 mark)

- (b) Write down a number that is bigger than 5 but less than 6.

Answer (1 mark)

- (c) Write down the square number from this list.

8 9 10 11 12

Answer (1 mark)

- (d) Write 0.3 as a fraction.

Answer (1 mark)

10 Work out

(a) $34 + 59$

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

Answer (1 mark)

(b) $730 - 152$

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

Answer (2 marks)

(c) 13×8

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

Answer (1 mark)

(d) 2% of 500

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

Answer (2 marks)

(e) 2^3

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

Answer (1 mark)

- 11** Jameel is buying a dining table for £250.
He pays a deposit that is half of the cost.

(a) How much is the deposit that Jameel pays?

.....
.....

Answer £ (1 mark)

(b) Jameel will pay the remaining cost in 10 equal payments.

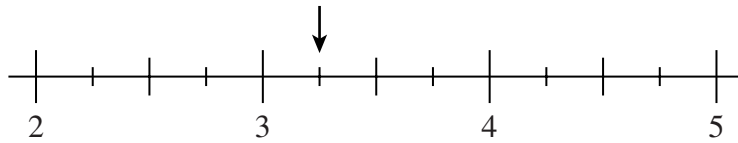
How much is each payment?

.....
.....

Answer £ (2 marks)

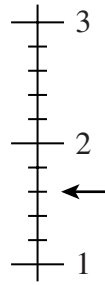
12 Write down the value of each number indicated by an arrow.

(a)



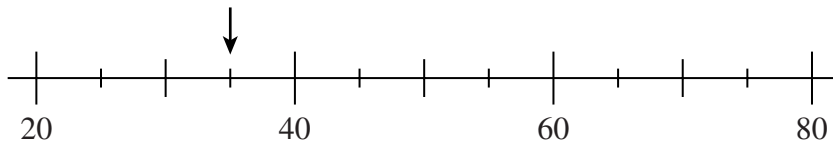
Answer (1 mark)

(b)



Answer (1 mark)

(c)



Answer (1 mark)

13 There are 24 passengers on a bus.

$\frac{1}{4}$ of the passengers are men.

$\frac{1}{3}$ of the passengers are women.

The rest of the passengers are children.

How many passengers are children?

.....

.....

.....

.....

Answer (3 marks)

14 Football teams are given points after each match they play as shown.

Win	3 points
Draw	1 point
Lose	0 points

- (a) Pam's team has played eight matches.
They have won four matches, drawn three matches and lost one match.

How many points in total has her team been given?

.....

.....

.....

.....

Answer (2 marks)

- (b) Milly's team has played 10 matches and has been given 17 points.

- (i) Work out the **two** ways that her team could have been given 17 points.

.....

.....

.....

First way

Number of matches won	
Number of matches drawn	
Number of matches lost	

Second way

Number of matches won	
Number of matches drawn	
Number of matches lost	

(2 marks)

- (ii) Milly says that after two more matches the total points will still be an odd number.

Explain why she may **not** be correct.

.....

 (1 mark)

- 15 For every £50 spent on petrol, £37 of this is tax.

Work out £37 as a percentage of £50.

.....

 Answer % (2 marks)

- 16 (a) Express 100 as the product of prime factors.
Write your answer in index form.

.....

 Answer (3 marks)

- (b) You are given that $56 = 2^3 \times 7$

Find the least common multiple (LCM) of 56 and 100.

.....

 Answer (2 marks)

END OF QUESTIONS

There are no questions printed on this page