Surname		Other Names	
Centre Number			Candidate Number									
Candidate Signature												

For Examiner's Use

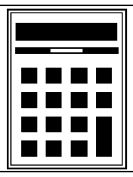
General Certificate of Secondary Education
June 2007

MATHEMATICS (MODULAR) (SPECIFICATION B) 33003/FA
Module 3 Foundation Tier Section A

F

Wednesday 27 June 2007 9.00 am to 9.40 am

For this paper you must have:
- a calculator
- mathematical instruments
- a treasury tag.



Time allowed for Section A: 40 minutes

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			

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

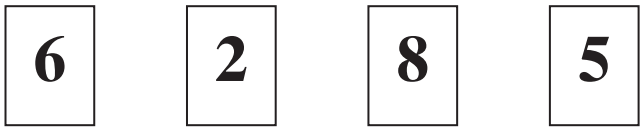
- The maximum mark for Section A is 32.
- The marks for questions are shown in brackets.
- You may ask for more answer paper. This must be tagged securely to this answer book.

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.



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 $6 \times 2 \times 8 \times 5$

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.....

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?

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.....

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)*

(d) The printer costs one penny less than £60.
Scott says that the shop should list the price as £60.

Give a reason why the shop lists the price as £59.99 instead of £60.

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(1 mark)

11

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

.....

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Answer ..... *(2 marks)*

(b) (i) Work out 3.7^2

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

(ii) Write your answer to one decimal place.

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)

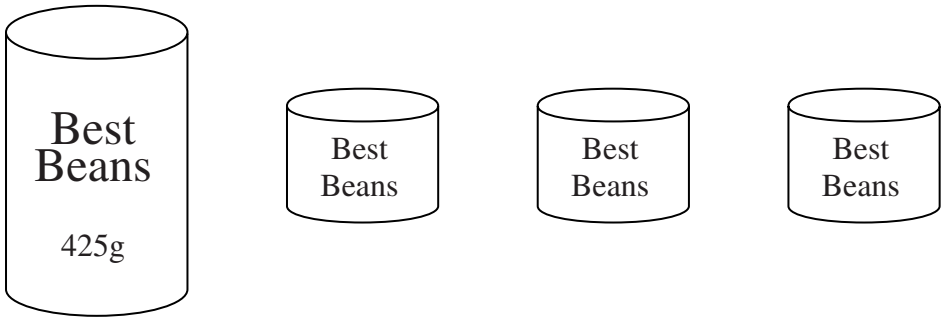
(b) How much more needs to be collected to make the total £10 ?

.....

Answer £ ..... *(1 mark)*

LEAVE MARGIN BLANK

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.

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.....

Answer ..... grams *(3 marks)*

Turn over for the next question

10

6 A cyclist rides from A to C.
He passes through B on the way.

The cyclist takes $3\frac{1}{2}$ minutes to ride from A to B.

He takes $1\frac{1}{2}$ minutes to ride from B to C.

(a) Work out the total time he takes to ride from A to C.

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Answer ..... minutes *(1 mark)*

(b) The distance from A to B is 395 metres.
The distance from B to C is 85 metres.

Work out the average speed of the cyclist from A to C.

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Answer ..... metres per minute *(3 marks)*

7 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 £.

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.....

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?

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Answer ..... euros *(3 marks)*

END OF SECTION A

There are no questions printed on this page

Surname		Other Names	
Centre Number			Candidate Number									
Candidate Signature												

General Certificate of Secondary Education
June 2007

AQA
ASSESSMENT and QUALIFICATIONS ALLIANCE

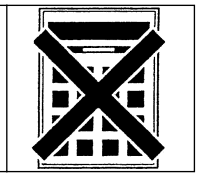
MATHEMATICS (MODULAR) (SPECIFICATION B) 33003/FB
Module 3 Foundation Tier Section B

F

Wednesday 27 June 2007 9.45am to 10.25 am

For this paper you must have:
- mathematical instruments.

You must **not** use a calculator.



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.

8 (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)*

9 (a) Work out an estimate for the calculation 99×7.1

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Answer ..... *(2 marks)*

(b) Estimate the value of $\sqrt{24}$

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

10 Work out

(a) 34 + 59

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

(b) 730 – 152

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Answer ..... *(2 marks)*

(c) 13×8

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

(d) 2% of 500

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Answer ..... *(2 marks)*

(e) 2^3

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.....

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?

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Answer £ ..... *(1 mark)*

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

How much is each payment?

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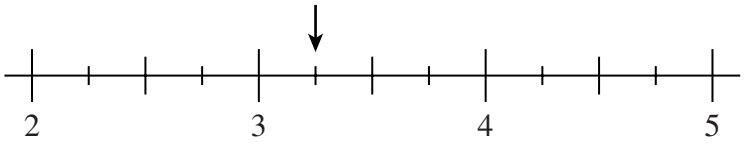
Answer £ ..... *(2 marks)*

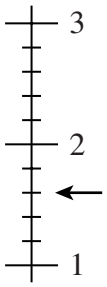
12 Write down the value of each number indicated by an arrow.

(a)



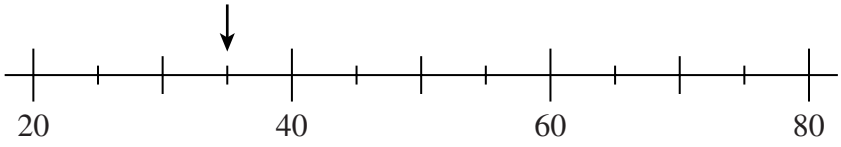
Answer ..... *(1 mark)*

(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?

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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?

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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.

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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.

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(1 mark)

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

(a) Work out £37 as a percentage of £50.

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Answer ..... % *(2 marks)*

(b) Colin spends £10 on petrol.

How much of this is tax?

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Answer £ ..... *(2 marks)*

END OF QUESTIONS

There are no questions printed on this page