

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

General Certificate of Secondary Education
November 2009



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

43053/FB

F

Friday 13 November 2009 9.50 am to 10.35 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: 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.
- 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 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.

9 (a) Work out $219 + 463$

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.....
.....

Answer (1 mark)

9 (b) Work out $465 - 128$

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.....
.....

Answer (1 mark)

9 (c) Work out $161 \div 7$

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.....
.....

Answer (1 mark)

9 (d) Work out 27×4

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.....
.....

Answer (1 mark)



- 9 (e) How many 50 pence coins are needed to make a total of £100?

.....

Answer (2 marks)

- 9 (f) How many 5 pence coins are needed to make a total £10?

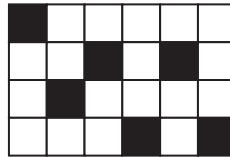
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Answer (1 mark)

- 9 (g) Write down the answer to 3.46×10

Answer (1 mark)

- 10 Here is a 4 by 6 grid.



- 10 (a) What fraction of the grid is shaded?
Give your answer in its simplest form.

.....

Answer (2 marks)

- 10 (b) How many more squares need to be shaded so that half of the grid is shaded?

Answer (1 mark)



11 A bus runs from Glasgow to Leeds once a day except on New Year's Day and Christmas Day.

In 2007, the bus was on time for exactly two-thirds of its journeys.

Richard says that the bus was on time on 250 days in 2007.

Is Richard correct?

You **must** show your working.

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.....
.....

Answer (3 marks)

12 (a) Work out 2% of 4000.

.....
.....

Answer (2 marks)

12 (b) A factory made 4000 cars.
98% of these cars were sold.

How many cars were **not** sold?

.....

Answer (1 mark)



13 (a) Circle the answer to $3 - 11$

.....
 8 6 -6 -8
 (1 mark)

13 (b) Circle the answer to 0.04×0.007

.....

 0.0011 0.0028 0.000 28 0.000 028
 (1 mark)

13 (c) Circle the answer to $12 \div 0.02$

.....

 0.6 6 60 600
 (1 mark)

14 A train has 10 carriages.
 Each carriage has 48 seats.
 76 people are already seated on the train.
 500 more people get on the train.

How many people will **not** get a seat?

.....

Answer (4 marks)



- 15** (a) Estimate the answer to $\frac{8.24 + 6.89}{9.01 - 3.76}$

.....

.....

Answer (2 marks)

- 15** (b) What is 420 out of 600 as a percentage?

.....

.....

Answer% (2 marks)

- 15** (c) Work out $\frac{8}{9} - \frac{1}{6}$

.....

.....

.....

Answer (2 marks)



16 Express 80 as the product of prime factors.
Give your answer in index form.

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Answer (3 marks)

17 Divide £200 in the ratio 2 : 3

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

Answer £ : £ (2 marks)

END OF QUESTIONS



There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

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