

Surname					Other Names				
Centre Number					Candidate Number				
Candidate Signature									

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General Certificate of Secondary Education
June 2005



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

F

Wednesday 29 June 2005 9.00 am to 9.40 am

<p>In addition to this paper you will require:</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	
		8	
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 in the spaces provided.
- Do all rough work in this booklet.
- 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.
- Mark allocations are shown in brackets.
- Additional answer paper will be issued on request and must be tagged securely to this answer booklet.
- You are expected to use a calculator where appropriate.

Advice

- In all calculations, show clearly how you work out your answer.

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

1 Wahid buys 3 drinks at 78 pence each.

(a) Work out the total cost of the 3 drinks.

.....

Answer £ (2 marks)

(b) How much change does he get from £5?

.....

Answer £ (1 mark)

- 2 (a) John's petrol tank holds 53 litres when full.
There are 18 litres of petrol in the tank.

How many more litres are needed to fill the tank?

.....

Answer litres (2 marks)

- (b) Tom's petrol tank holds 58 litres when full.

How many litres are in the tank when it is half full?

.....

Answer litres (1 mark)

- (c) Petrol costs £0.77 a litre.

- (i) What is the cost of 16 litres of petrol?

.....

Answer £ (2 marks)

- (ii) Sam spends £19.25 on petrol.

How many litres of petrol does Sam buy?

.....

Answer litres (2 marks)

TURN OVER FOR THE NEXT QUESTION

3

First class railway coaches have 28 seats.
Standard class railway coaches have 48 seats.

(a) A train has 3 first class coaches and 12 standard class coaches.

How many seats are there on the train altogether?

.....
.....

Answer (3 marks)

(b) Another train has 620 seats.
This train has 10 standard class coaches.

How many first class coaches does it have?

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

Answer (3 marks)

4 The table shows the playing times for some music tracks.

	Minutes	Seconds
Track A	3	45
Track B	2	59
Track C	3	35
Track D	2	54

(a) Which track has the longest playing time?

Answer (1 mark)

(b) Which track has the shortest playing time?

Answer (1 mark)

(c) What is the total playing time for tracks A and B?

.....

Answer minutes seconds (2 marks)

(d) Write down the playing time of Track C to the nearest minute.

Answer minutes (1 mark)

5 (a) Write $\frac{1}{5}$ as a percentage.

.....

Answer % (1 mark)

(b) Work out 3.1^2

Answer (1 mark)

(c) Work out 32% of £9.50

.....

.....

Answer £ (2 marks)

(d) Calculate $\frac{10.2}{4.1 \times 1.8}$

(i) Write down your full calculator display.

Answer (1 mark)

(ii) Write your answer to 1 decimal place.

Answer (1 mark)

- 6 (a) Ann eats three-quarters of a pound of fruit each day.

How much fruit does she eat in seven days?

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

Answer pounds (3 marks)

- (b) Tony eats $\frac{1}{4}$ kg of fruit each day.

He has 3 kg of fruit.

How many days will it take him to eat this fruit?

.....
.....

Answer days (2 marks)

END OF SECTION A

THERE ARE NO QUESTIONS PRINTED ON THIS PAGE