

Surname					Other Names				
Centre Number					Candidate Number				
Candidate Signature									

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General Certificate of Secondary Education
June 2004



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

F

Wednesday 30 June 2004 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		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 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 Chloe orders the following items at a burger bar.

3 burgers at £1.49 each
 4 large fries at £1.19 each
 2 milkshakes at £1.10 each
 3 colas at 69p each

Complete the bill below.

BEST BURGERS		
	£	pence
3 burgers at £1.49	4	47
4 large fries at £1.19		
2 milkshakes at £1.10		
3 colas at 69p		
Total		

.....

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(4 marks)

2 Eileen is making some four-digit numbers.
Each number contains all the digits 7, 4, 9 and 1.

(a) Write down the smallest four-digit number Eileen can make.

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.....

Answer (1 mark)

(b) Write down the largest four-digit even number Eileen can make.

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.....

Answer (2 marks)

(c) Round your answer to part (b) to the nearest 100.

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Answer (1 mark)

3 Sara is paid £5.10 per hour.
Each day she works $7\frac{1}{2}$ hours.
Each week she works 5 days.

How much does she earn each week?

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.....

Answer £ (3 marks)

Turn over 

- 4 Apples are sold in a farm shop at £1.76 per kilogram.

Calculate the price of 1 pound of apples.

Use the conversion 1 kilogram = 2.2 pounds

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Answer (3 marks)

- 5 There are 1200 pupils in a school.
 Of the 1200 pupils, 25% are in year 11.

- (a) How many pupils are in year 11?

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Answer (2 marks)

- (b) Of the 1200 pupils, $\frac{2}{5}$ are boys.

How many pupils are boys?

.....

Answer (2 marks)

- (c) Of the 1200 pupils, 96 are girls in year 10.

What percentage of the pupils are girls in year 10?

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Answer% (2 marks)

6 (a) Calculate $\sqrt{9.61}$

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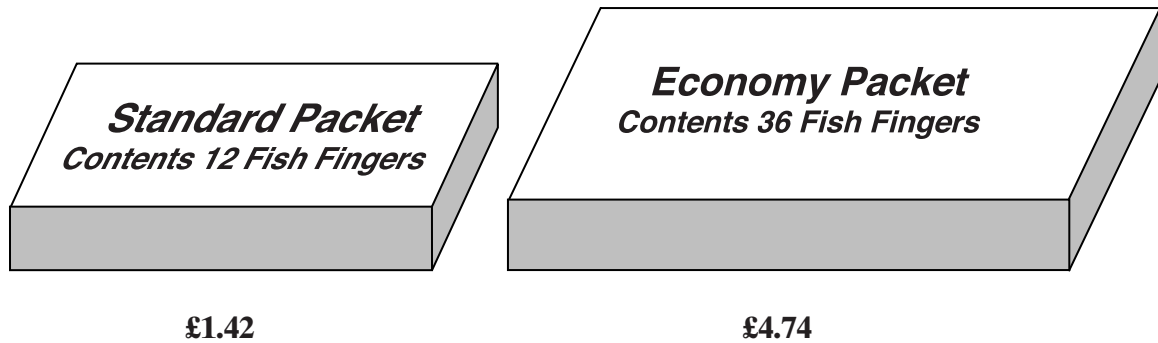
Answer (1 mark)

(b) Calculate $\sqrt{9.61} + 2.9^2$

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Answer (1 mark)

7 Packets of fish fingers are sold in two sizes.



Which size packet is the better value for money?
You **must** show all your working.

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Answer (2 marks)

Turn over ►

13

8 (a) Write $1\frac{1}{8}$ as a decimal.

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Answer (1 mark)

(b) Place the following numbers in order of size, starting with the smallest.

$1\frac{1}{8}$ 1.08^2 1.09 1.112 1.18

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Answer (3 marks)

9 Mike took 400 books to sell at a Saturday market.
By 3 pm, he had sold 310 books at 80 pence each.

Mike then reduced the selling price of the remaining books to 50 pence each.
He was left with 24 unsold books which he gave away.

Find the total amount Mike received from selling the books.

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Answer £ (4 marks)

END OF SECTION A

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