

Tuesday 20 June 2023 – Afternoon

A Level Mathematics A

H240/03 Pure Mathematics and Mechanics

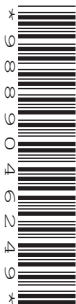
Printed Answer Booklet

Time allowed: 2 hours



You must have:

- Question Paper H240/03 (inside this document)
- a scientific or graphical calculator



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

Last name

INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the **Printed Answer Booklet**. If you need extra space use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give non-exact numerical answers correct to **3** significant figures unless a different degree of accuracy is specified in the question.
- The acceleration due to gravity is denoted by $g \text{ ms}^{-2}$. When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.

INFORMATION

- The total mark for this paper is **100**.
- The marks for each question are shown in brackets [].
- This document has **20** pages.

ADVICE

- Read each question carefully before you start your answer.

2
Section A
Pure Mathematics

1	

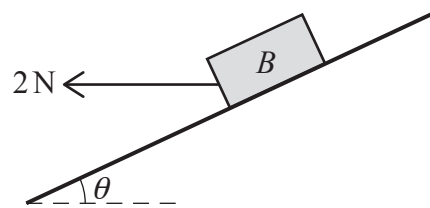
3(a)(i)	
3(a)(ii)	
3(b)	

7(b)	(continued)
7(c)	
7(d)	

12
Section B
Mechanics

8

9(a)



9(b)

(answer space continued on next page)

9(b) (continued)	
10(a)	
10(b)	

12(a)	

12(b)	

12(c)	
12(d)	

