



Oxford Cambridge and RSA

Friday 23 May 2025 – Afternoon

AS Level Mathematics A

H230/02 Pure Mathematics and Mechanics

Printed Answer Booklet

Time allowed: 1 hour 30 minutes



You must have:

- Question Paper H230/02 (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)

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Last name

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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 page 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 gms^{-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 **75**.
- The marks for each question are shown in brackets [].
- This document has **12** pages.

ADVICE

- Read each question carefully before you start your answer.

2
Section A
Pure Mathematics

1	
2	
3(a)	
3(b)	
3(c)	

4(a)

4(b)

4(c)

[illegible]

6(a)**6(b)**

7(a)	
7(b)	

8(a)**8(b)**

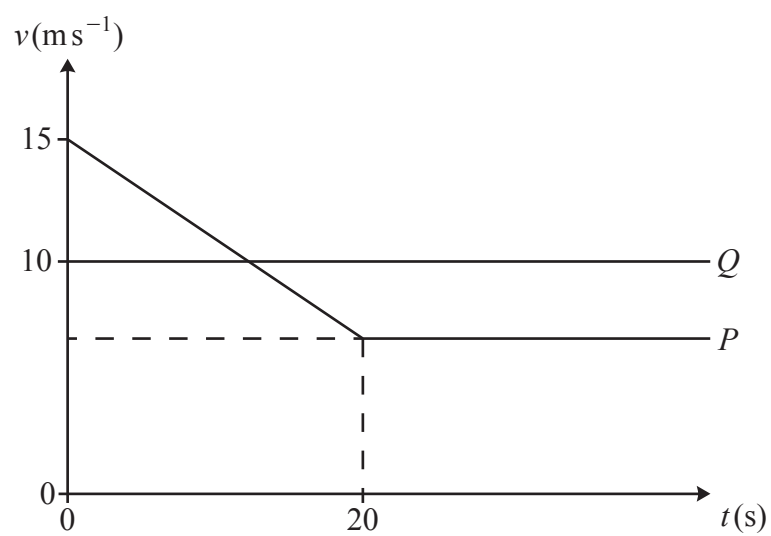
8
Section B
Mechanics

9(a)

9(b)

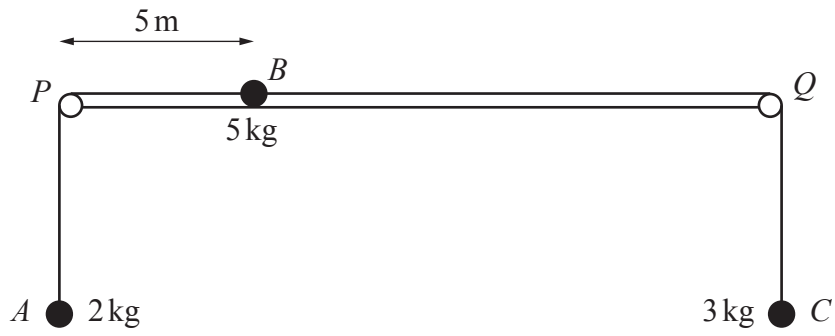
9(c)

10



10(a)	
10(b)	

11



11(a)

11(b)

(answer space continued on next page)

11(b) (continued)	
	11(c)
11(d)	
11(e)	

[illegible]

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