



Cambridge International AS & A Level

CANDIDATE NAME

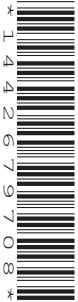


CENTRE NUMBER

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CANDIDATE NUMBER

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MATHEMATICS

9709/63

Paper 6 Probability & Statistics 2

May/June 2024

1 hour 15 minutes

You must answer on the question paper.

You will need: List of formulae (MF19)

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- If additional space is needed, you should use the lined page at the end of this booklet; the question number or numbers must be clearly shown.
- You should use a calculator where appropriate.
- You must show all necessary working clearly; no marks will be given for unsupported answers from a calculator.
- Give non-exact numerical answers correct to 3 significant figures, or 1 decimal place for angles in degrees, unless a different level of accuracy is specified in the question.

INFORMATION

- The total mark for this paper is 50.
- The number of marks for each question or part question is shown in brackets [].

This document has **12** pages.





7 The independent random variables X and Y have the distributions $Po(1.9)$ and $Po(2.2)$ respectively.

(a) Find $P(X+Y < 4)$. [3]

Dotted lines for answer (a)

(b) Find the probability that $X = 2$ given that $X+Y < 4$. [4]

Dotted lines for answer (b)

DO NOT WRITE IN THIS MARGIN



