



Oxford Cambridge and RSA

Wednesday 15 June 2022 – Afternoon

AS Level Further Mathematics B (MEI)

Y412/01 Statistics a

Printed Answer Booklet

Time allowed: 1 hour 15 minutes



You must have:

- Question Paper Y412/01 (inside this document)
- the Formulae Booklet for Further Mathematics B (MEI)
- 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 your final answers to a degree of accuracy that is appropriate to the context.

INFORMATION

- This document has **12** pages.

ADVICE

- Read each question carefully before you start your answer.

1(a)

r	1	2	3	4	5
$P(X = r)$		$7k$		$3k$	

1(b)

1(c)

$E(X) =$

$Var(X) =$

1(d)

2(a)	
2(b)(i)	
2(b)(ii)	
2(c)	

3(a)	
3(b)	
3(c)	
(answer space continued on next page)	

3(c) (continued)	
4(a)	
4(b)	

5(a)	
5(b)	
	C11 =
	C18 =
5(c)	
(answer space continued on next page)	

5(c)	(continued)
5(d)	
	5(e)

6(a)	

6(b)	

Prediction for $x = 35$ is

Prediction for $x = 10$ is

6(c)	
6(d)	

DO NOT WRITE IN THIS SPACE

7(a)	
7(b)	
7(c)	

7(d)	

DO NOT WRITE IN THIS SPACE

