



Oxford Cambridge and RSA

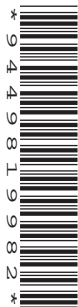
Wednesday 15 June 2022 – Afternoon

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)	<table border="1"> <tr> <td>r</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>$P(X = r)$</td> <td></td> <td>$7k$</td> <td></td> <td>$3k$</td> <td></td> </tr> </table>						r	1	2	3	4	5	$P(X = r)$		$7k$		$3k$	
	r	1	2	3	4	5												
	$P(X = r)$		$7k$		$3k$													
1(b)																		
1(c)																		
	$E(X) =$																	
	$\text{Var}(X) =$																	
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

