

## Friday 19 May 2023 – Afternoon

### AS Level Further Mathematics A

#### Y532/01 Statistics

#### Printed Answer Booklet

Time allowed: 1 hour 15 minutes



**You must have:**

- Question Paper Y532/01 (inside this document)
- the Formulae Booklet for AS Level Further Mathematics A
- 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 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  $g \text{ m s}^{-2}$ . 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 **60**.
- The marks for each question are shown in brackets [ ].
- This document has **8** pages.

#### ADVICE

- Read each question carefully before you start your answer.

<b>1(a)</b>	
<b>1(b)</b>	
<b>1(c)</b>	
<b>2(a)</b>	



<b>3(c)</b>	
<b>3(d)</b>	
<b>3(e)</b>	
<b>4</b>	

<b>5(a)</b>	
<b>5(b)</b>	
<b>5(c)</b>	
<b>6(a)</b>	

<b>6(b)</b>	<i>x</i>	0	1	2	3	4	5	6	Total
	Observed frequency	7	10	16	15	15	11	14	88
	Expected frequency								
	Contribution to $\chi^2$ statistic	0.9	0.3333	0.2857	0.0625	0.0714			
<b>6(c)</b>									
<b>6(d)</b>									
<b>7(a)</b>									



