



Oxford Cambridge and RSA

**Thursday 14 October 2021 – 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

--	--	--	--	--

Candidate number

--	--	--	--

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.

<b>1(a)</b>	
$E(X) =$	
$\text{Var}(X) =$	
<b>1(b)(i)</b>	
<b>1(b)(ii)</b>	

**2(a)****2(b)** $E(X) =$  $\text{Var}(X) =$ **2(c)**

<b>2(d)(i)</b>	
<b>2(d)(ii)</b>	
<b>3(a)</b>	

<b>3(b)</b>	

<b>3(c)</b>	

<b>3(d)</b>	

<b>4(a)(i)</b>	
<b>4(a)(ii)</b>	
<b>4(b)</b>	

<b>5(a)</b>	

<b>5(b)</b>	

<b>5(c)</b>	

**6(a)**

---

---

---

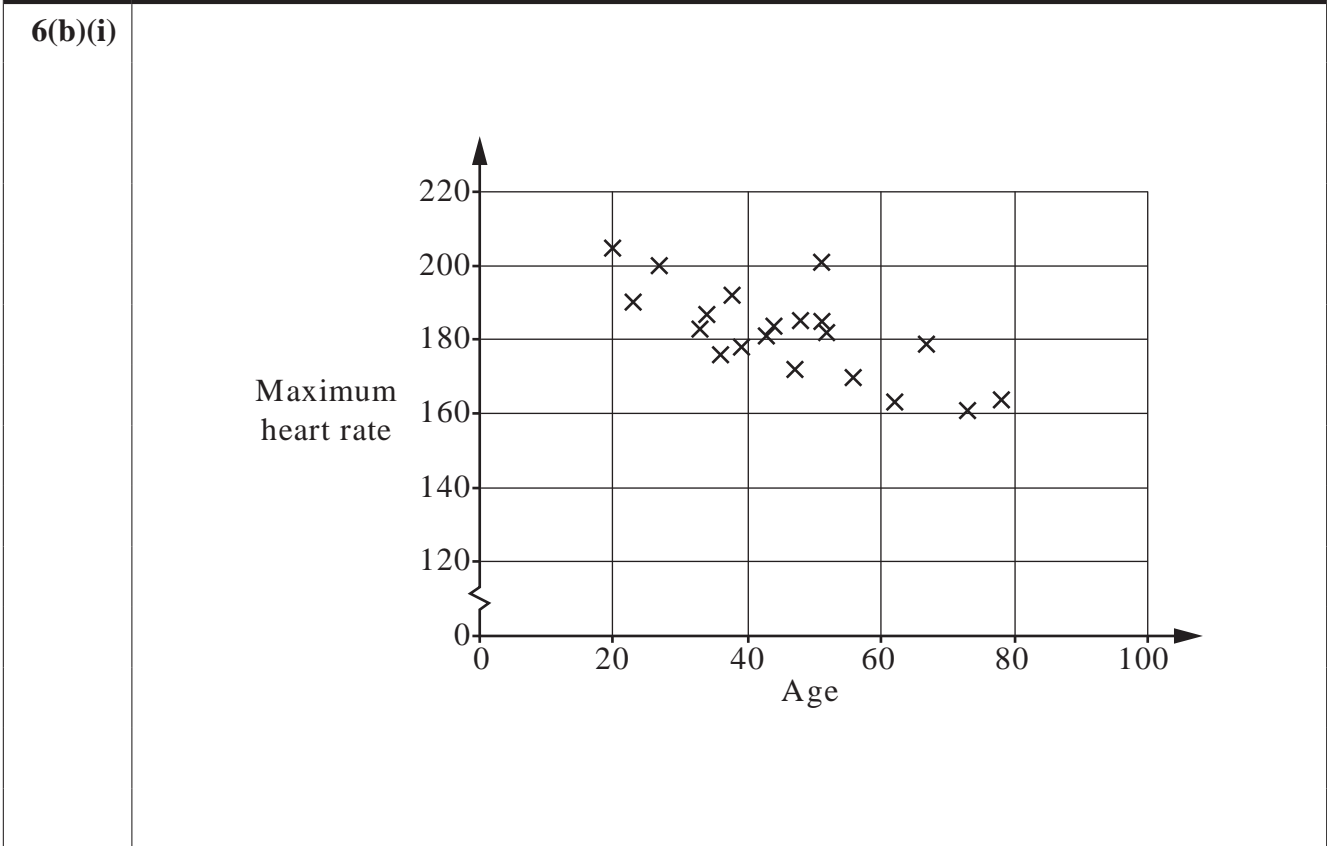
---

---

---

---

---



**6(b)(ii)**

---

---

---

---

---

---

---

---

---

---



<b>6(c)</b>	
<b>6(d)</b>	
	Prediction for 40 years =
	Prediction for 5 years =
<b>6(e)</b>	





