

Modified Enlarged 24pt
OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Thursday 12 June 2025 – Afternoon

A Level Mathematics B (MEI)

H640/02 Pure Mathematics and Statistics

Printed Answer Booklet

Time allowed: 2 hours

plus your additional time allowance

YOU MUST HAVE:

**Question Paper H640/02 (with
this document)**

**Loose sheet for Question 6 (with
this document)**

a scientific or graphical calculator

Please write clearly in black ink.

Centre number

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Candidate number

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First name(s) _____

Last name _____

READ INSTRUCTIONS OVERLEAF



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.

ADVICE

Read each question carefully before you start your answer.

SECTION A (23 marks)

1(a)

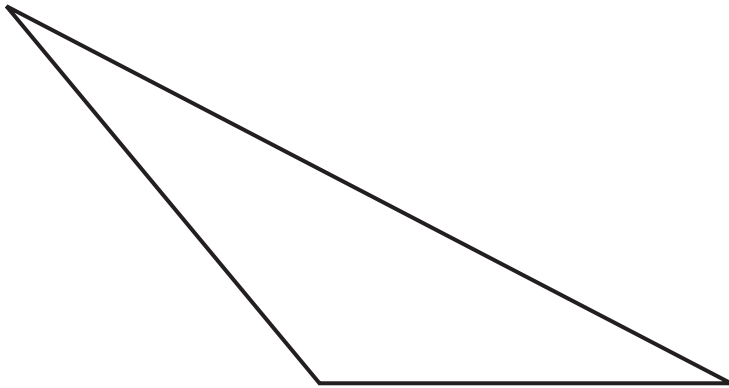
1(b)

2

3

C

Not to scale



A

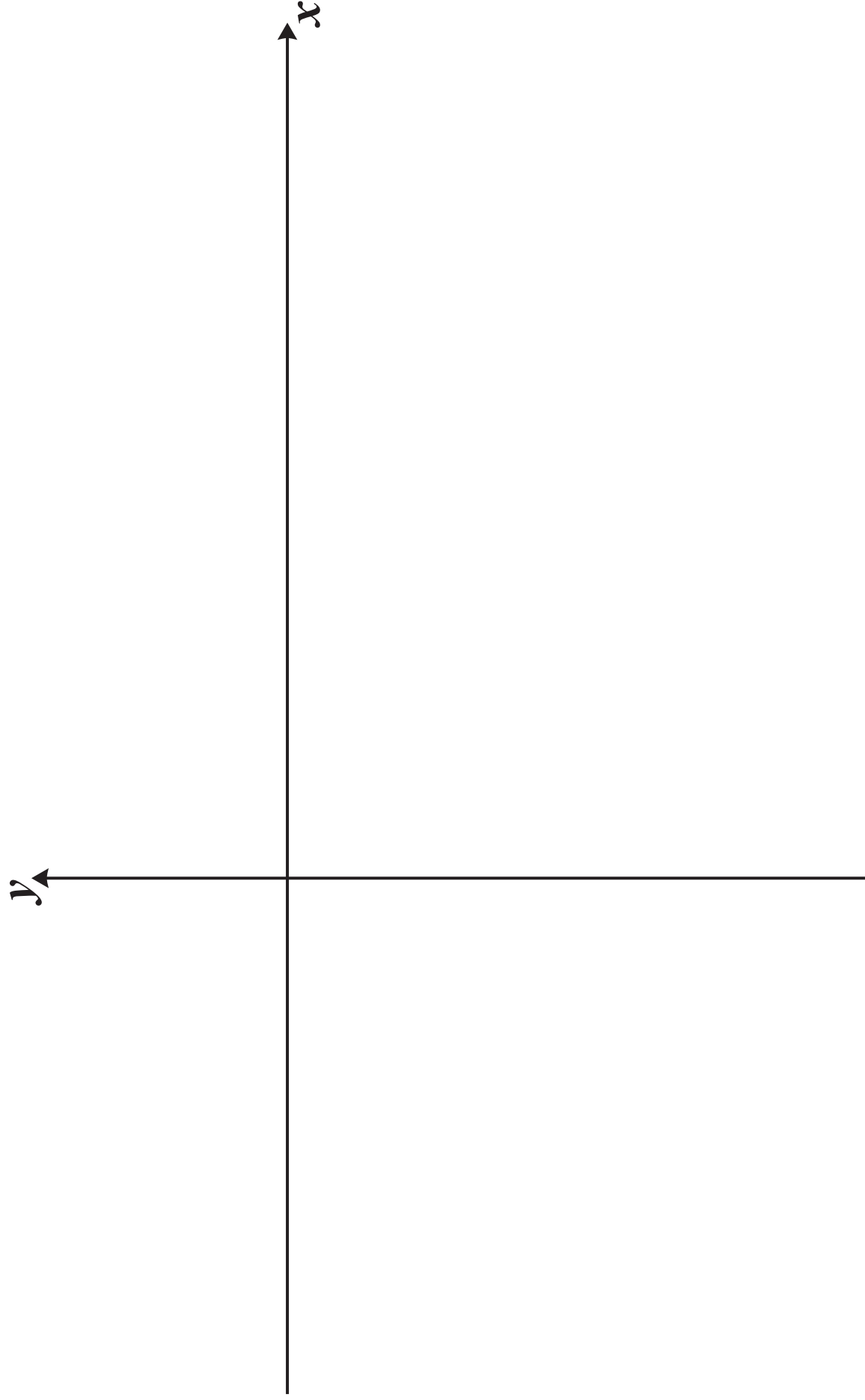
B

4(a)

[illegible]

4(c)

8



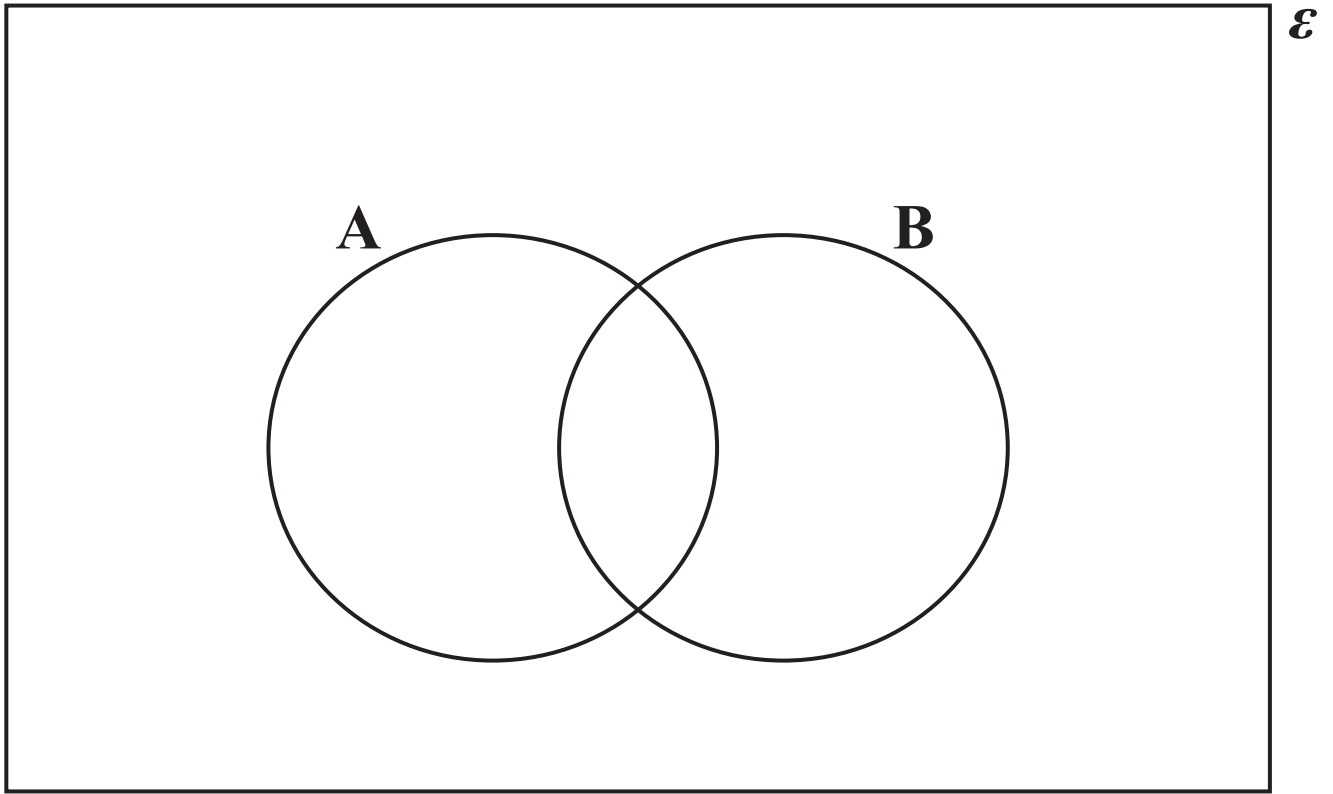
BLANK PAGE

[illegible]

6(a)

6(b)

7(a)

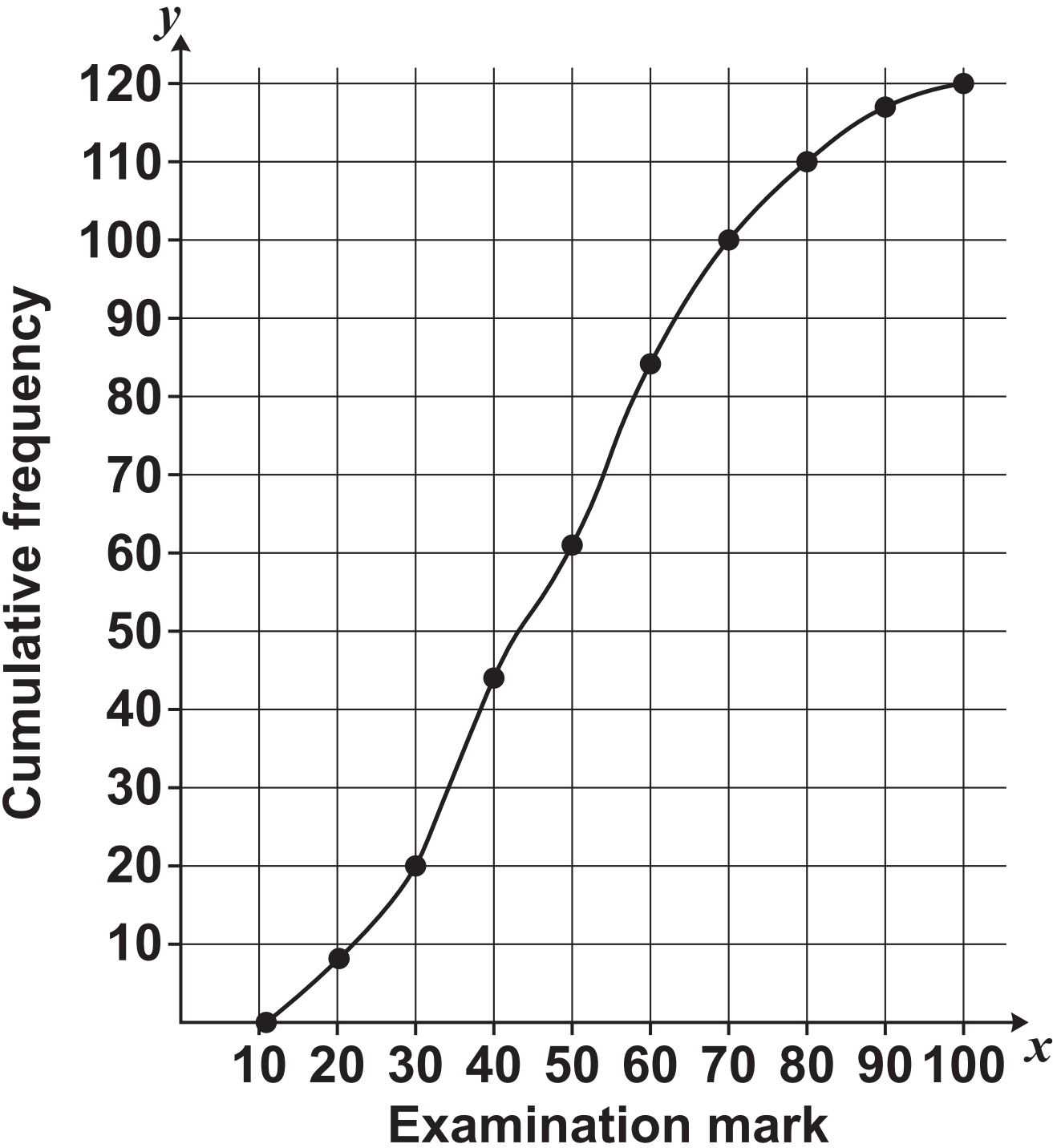


[illegible]

7(c)

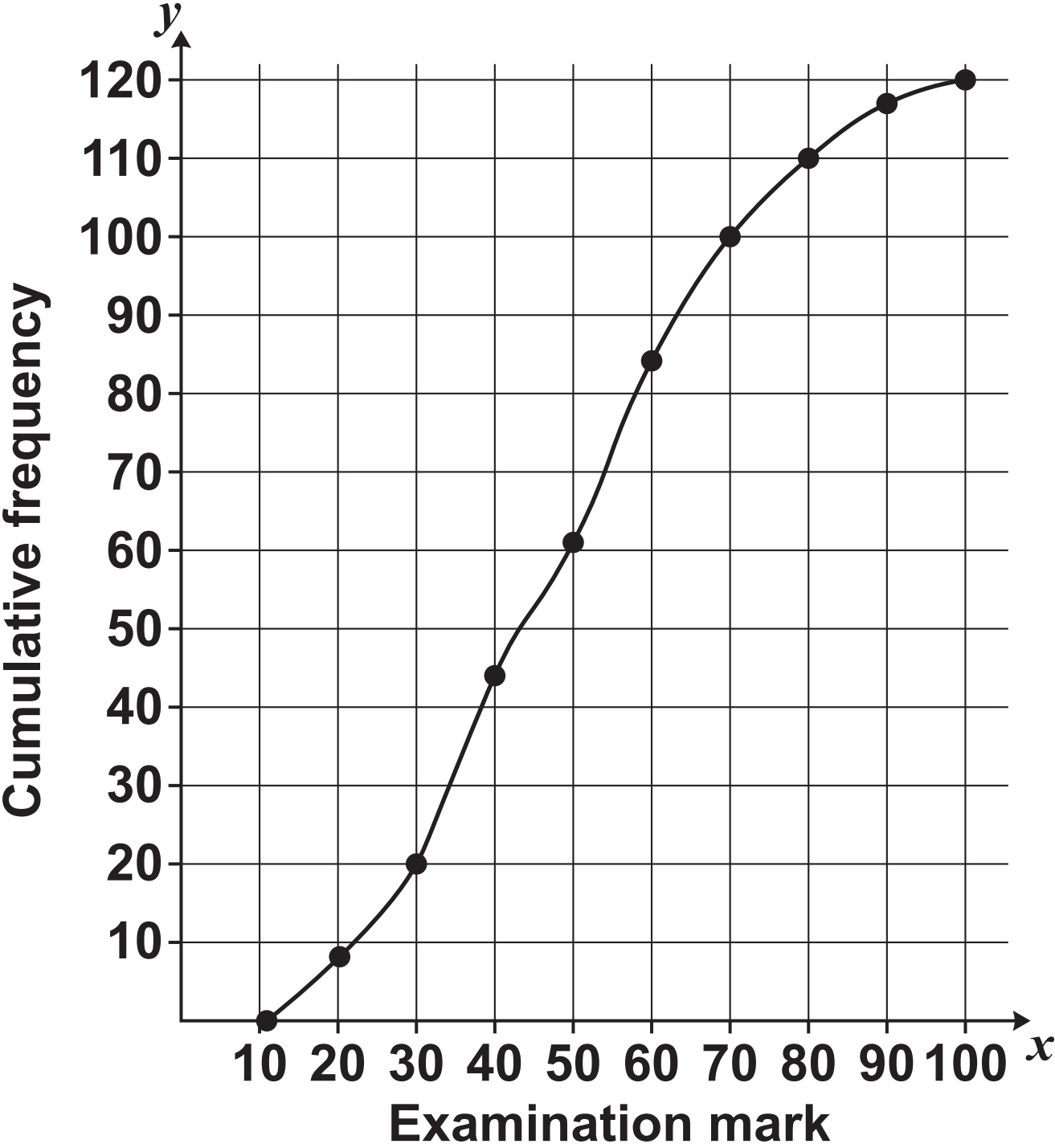
SECTION B (77 marks)

8(a)



[illegible]

8(b)



9(a)

9(b)

10(a)

10(b)

10(c)

10(d)

10(e)

11(a)

11(b)

11(c)

11(d)

11(e)

12

[illegible]

13(a)

13(b)

[illegible]

13(d)

14(a)

14(b)(i) _____

14(b)(ii) _____

14(c)(i)

14(c)(ii)

[illegible]

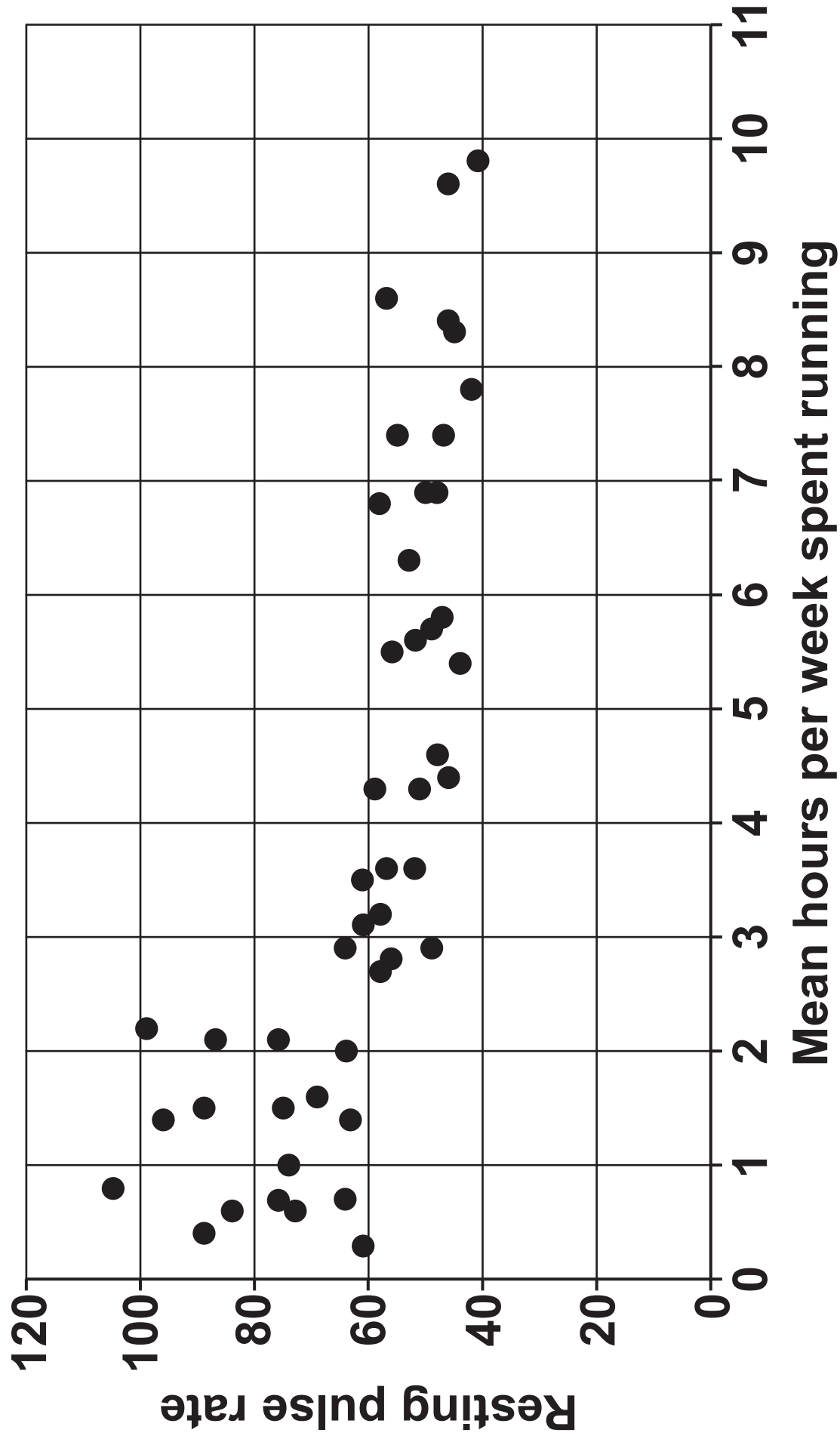
[illegible]

15(a)(i)

15(a)(ii)

15(b)

15(c)



15(d)

**Group to the left of the vertical line
 $r_s = 0.20936$ $p\text{-value} = 0.41998$:**

[illegible]

[illegible]

[illegible]

16(b)

[illegible]

[illegible]

[illegible]

EXTRA ANSWER SPACE

If you need extra space use these lined pages. You must write the question numbers clearly in the margin.



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