

Paper Reference 1ST0/1H
Pearson Edexcel
Level 1/Level 2 GCSE (9–1)
Statistics
Paper 1
Higher Tier
(Calculator)

Monday 12 June 2023 – Afternoon

Data Booklet

**In the boxes below, write your name,
centre number and candidate number.**

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some data sheets in case you need them.

**THIS DATA BOOKLET MUST
BE RETURNED WITH THE
QUESTION PAPER AT THE
END OF THE EXAMINATION.**

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Spare Copies

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Question 1

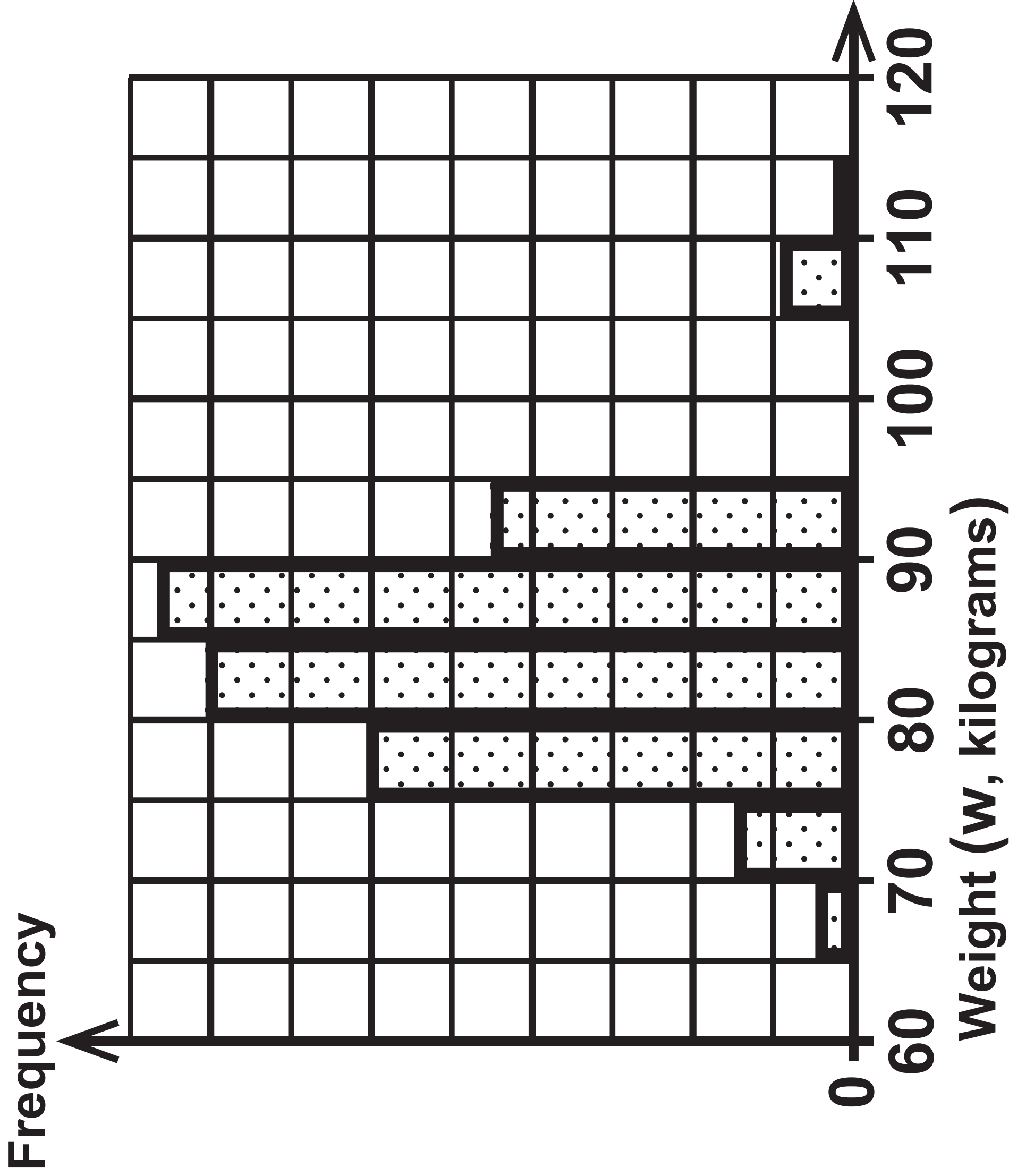
Key:

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Question 1 continued.

2017 season		2018 season
	1	9
	2	5 6 9
	3	5 7 9
	4	3 3 5 5 5 7
	5	0 2 2 4 6 8 8
	6	4 5 6
	7	0 2
	8	
	9	0

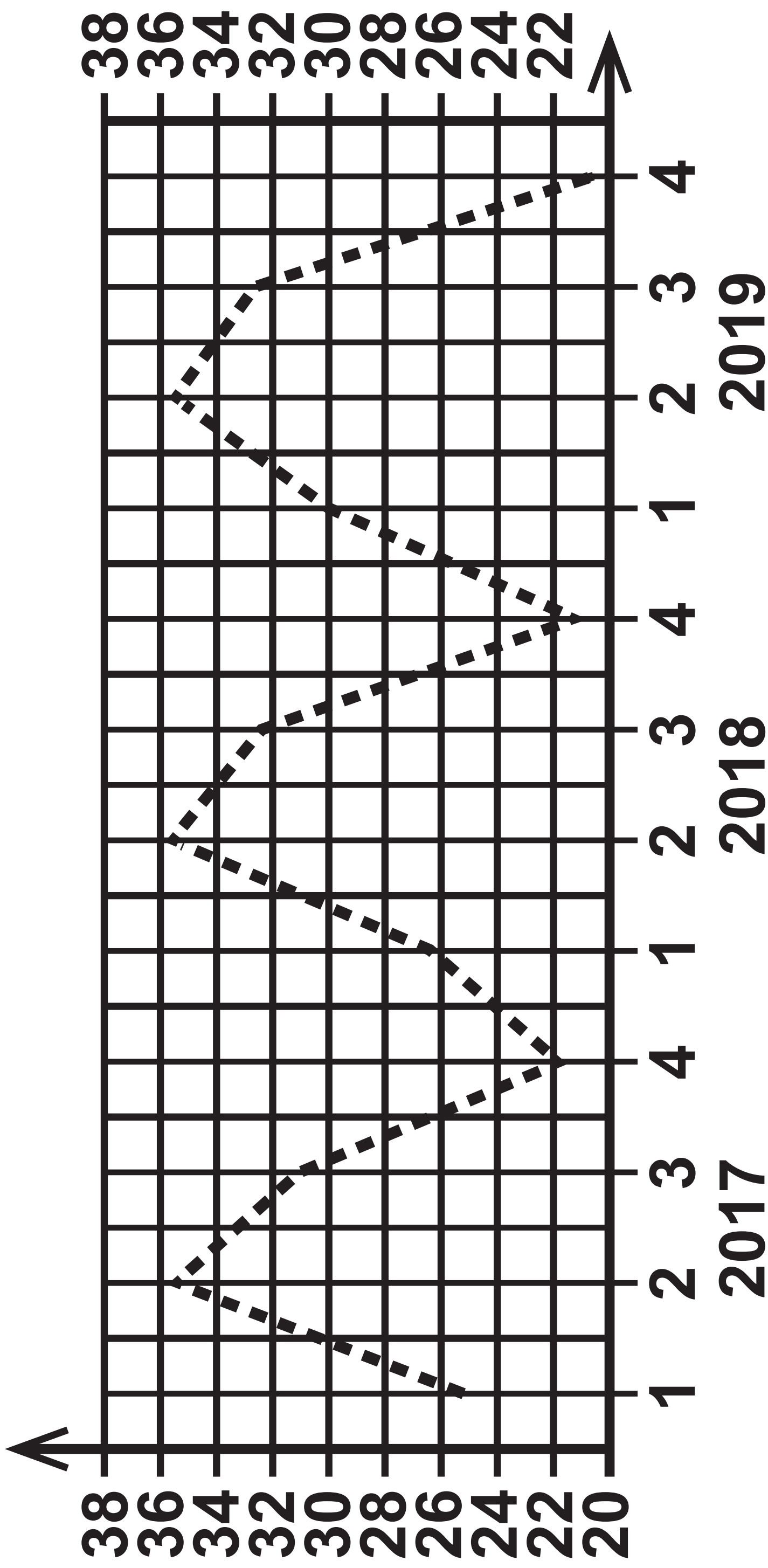


Height (h centimetres)	Frequency		
$170 < h \leq 180$	12		
$180 < h \leq 190$	146		
$190 < h \leq 200$	175		
$200 < h \leq 210$	323		
$210 < h \leq 220$	146		
$220 < h \leq 230$	8		
Total	810		

Question 3

Diagram 1

Motorcycle registrations (thousands)

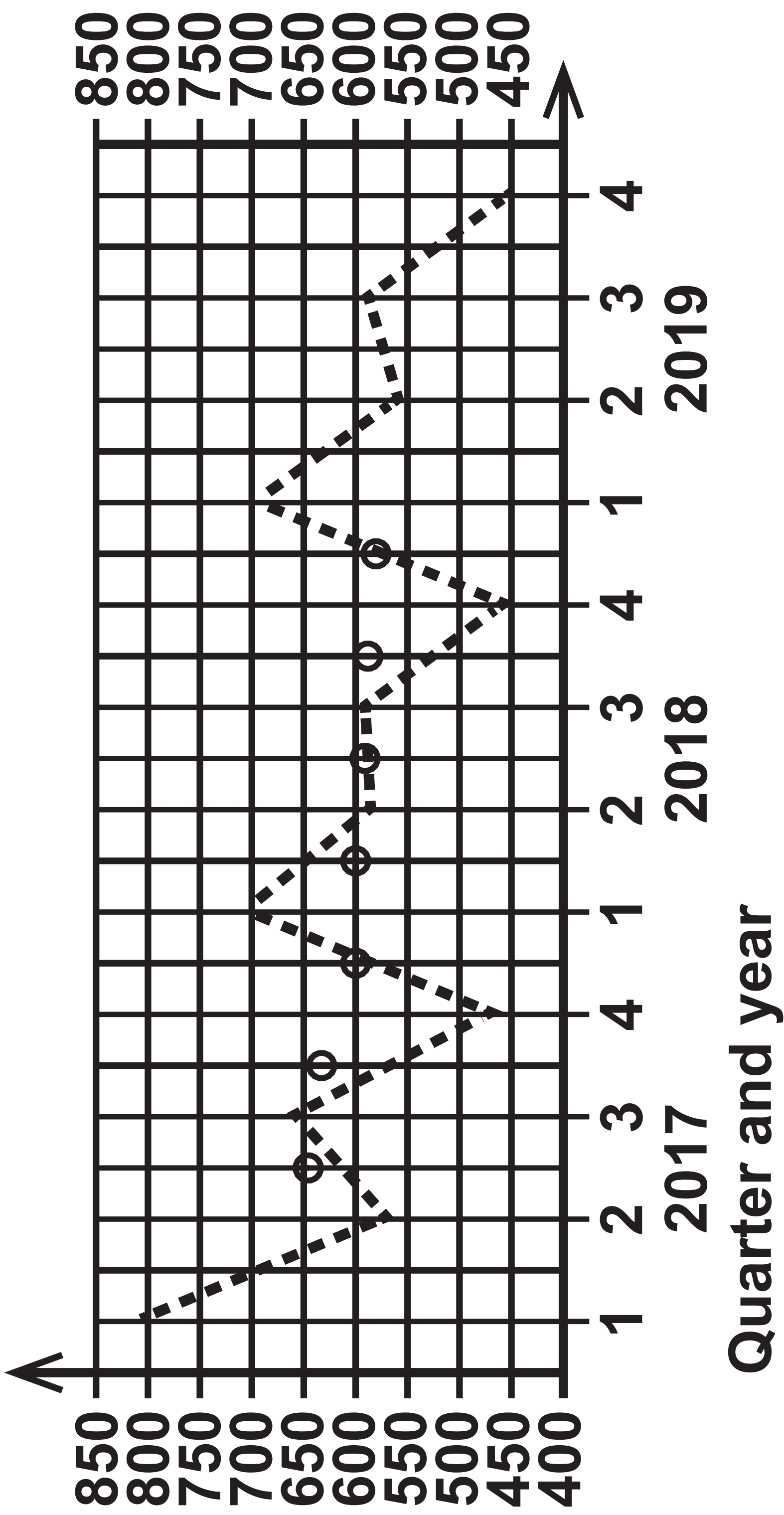


Quarter and year

Question 3

Diagram 2

Car registrations (thousands)



Question 4

Collecting data

- **Ask all 50 of the students in his school athletics club to take part in the investigation.**
- **Ask each student to complete a long jump and measure their distance jumped.**
- **Ask each student to record their gender, age, height and distance jumped on his spreadsheet.**

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Question 4 continued.

Processing and presenting data

- **Produce two scatter diagrams – one for male students and one for female students.**
- **Plot the scatter diagrams with distance jumped on the horizontal axis and height of the student on the vertical axis.**
- **Look for outliers on the scatter diagram.**
- **Insert a line of best fit through the double mean point on each scatter diagram.**
- **Use the line of best fit to predict the results for the athletes at the Olympic Games.**

Question 5(b)

Photography entry	Mrs John's rank	Mr Nowak's rank		
A	3	1		
B	6	6		
C	2	5		
D	4	3		

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Photography entry	Mrs John's rank	Mr Nowak's rank		
E	7	8		
F	1	4		
G	8	7		
H	5	2		

	Monthly average price (£)	Chain base index number
Jan	1001.4	
Feb	1014.2	101.3
Mar	988.1	97.4
Apr	986.8	99.9
May	1000.0	101.3
Jun	1071.9	

Question 7

Initial sample size	683
Second sample size	587
Number of tagged fish in second sample	148

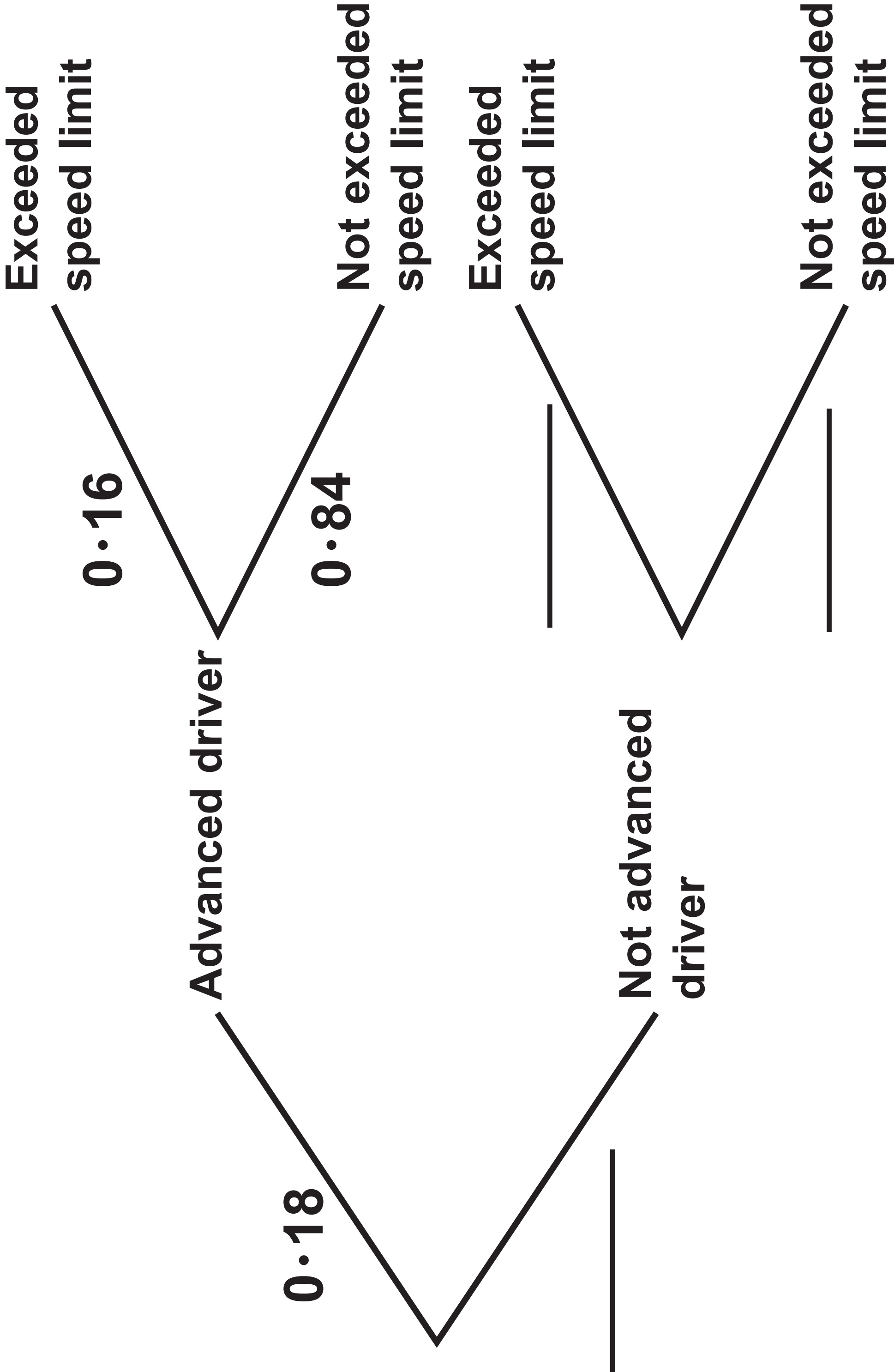


Diagram 1

Male handspans

Minimum	18·0	Mean	22·3	Standard deviation	1·44
Maximum	25·5	Median	22·0	Skewness	0·630
Number of male handspans	78				

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Question 9 – Diagram 1 continued.

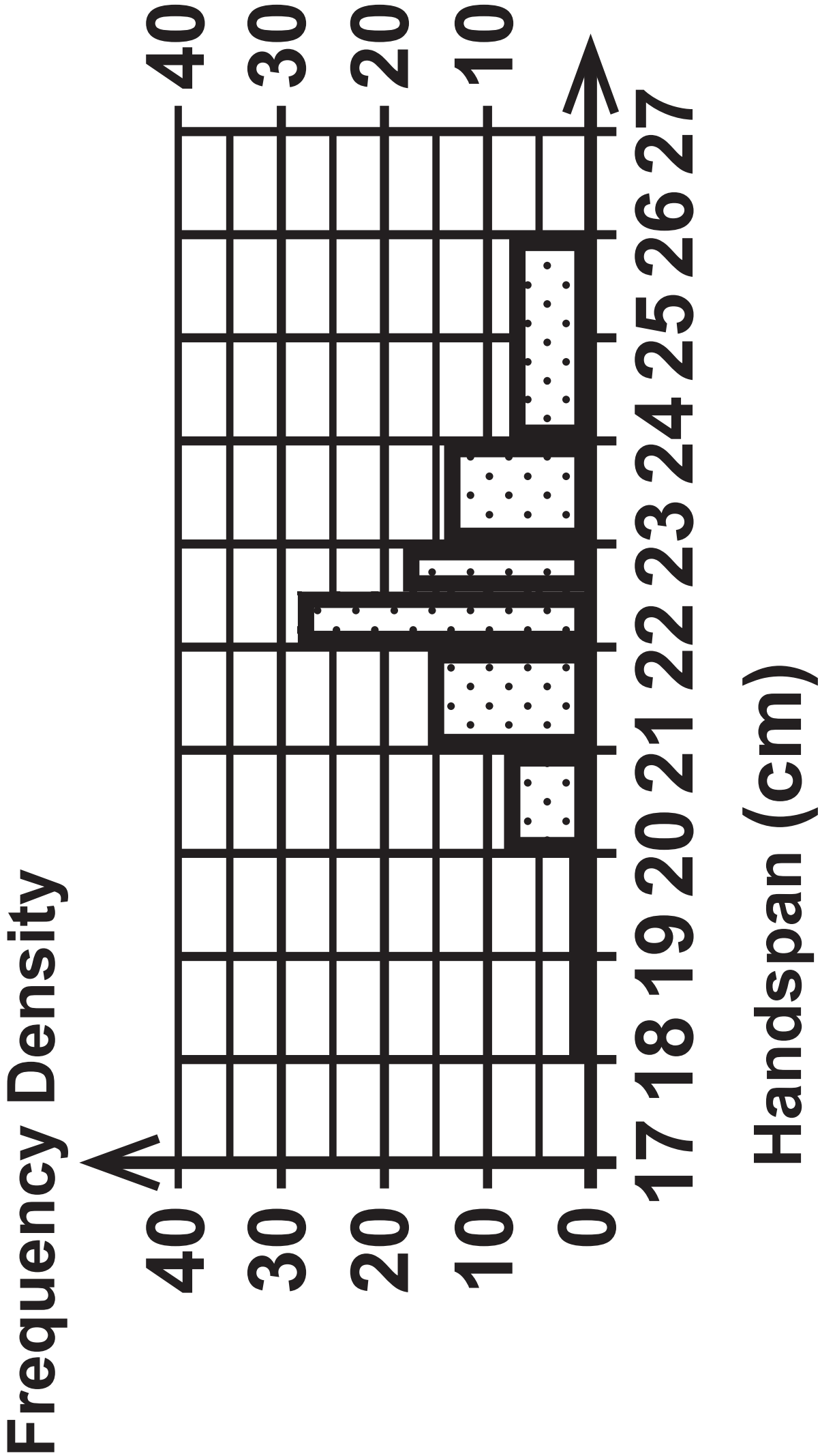


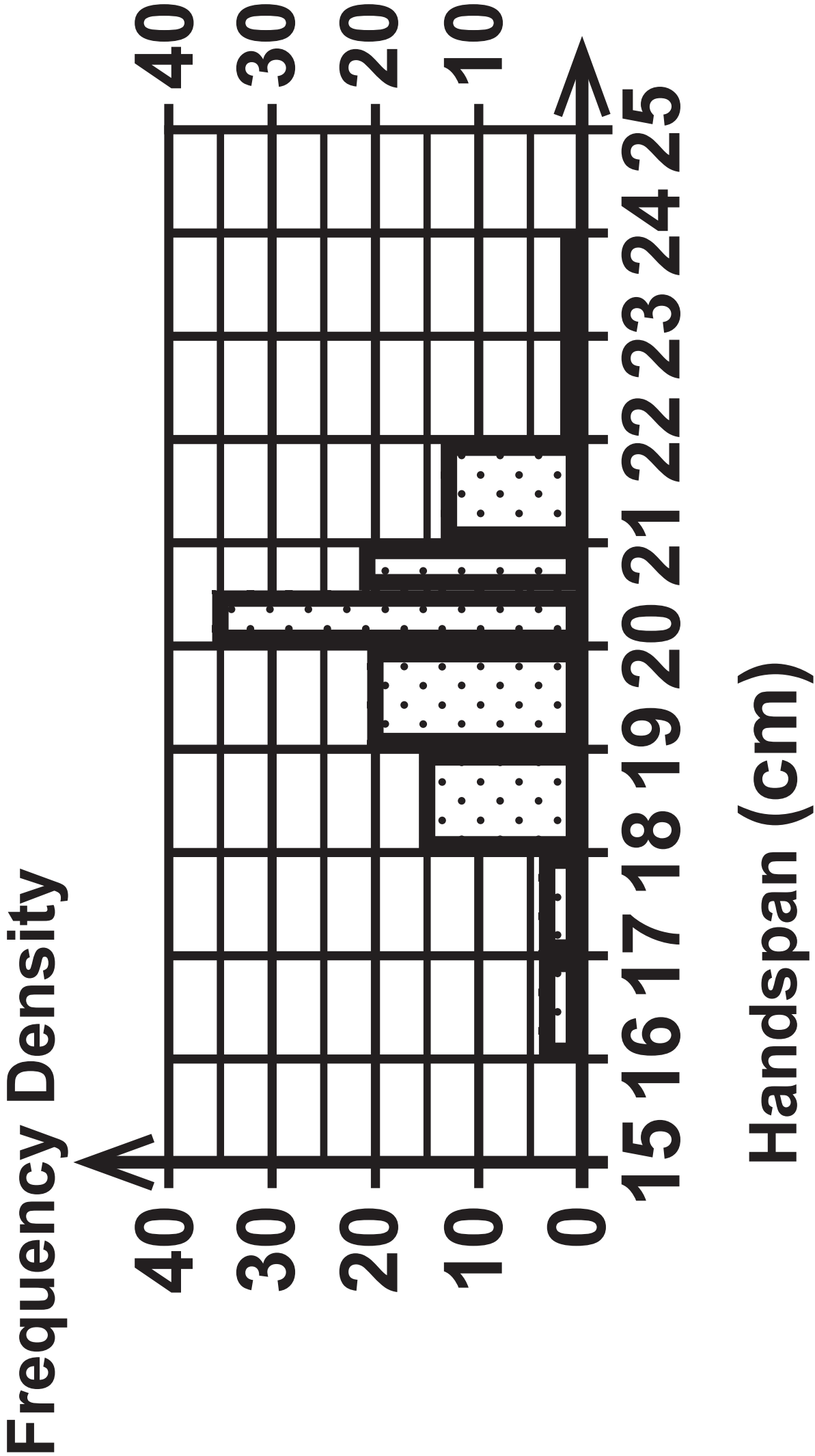
Diagram 2

Female handspans

Minimum	16·0	Mean	19·6	Standard deviation	1·33
Maximum	23·0	Median	20·0		
Number of female handspans			89		

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Question 9 – Diagram 2 continued.



Question 10

	Male	Female
Timber rattlesnake	$y = -1804 \cdot 14 + 26 \cdot 03x$	$y = -1236 \cdot 54 + 19 \cdot 61x$
Eastern racer	$y = -363 \cdot 69 + 6 \cdot 36x$	$y = -236 \cdot 80 + 4 \cdot 62x$

Question 11(b)

Think of a number between 1 and 8

If you thought of an even number, tick box A.

If you thought of an odd number, answer this question.

**Have you dealt with personal errands during your work
day?**

If yes, tick box A. If no, tick box B.

A ☐

B ☐

Employment role			
Office staff		Warehouse staff	
Delivery drivers			
Contract type	Full time	126	874
	Part time	93	615
		610	208

Question 1

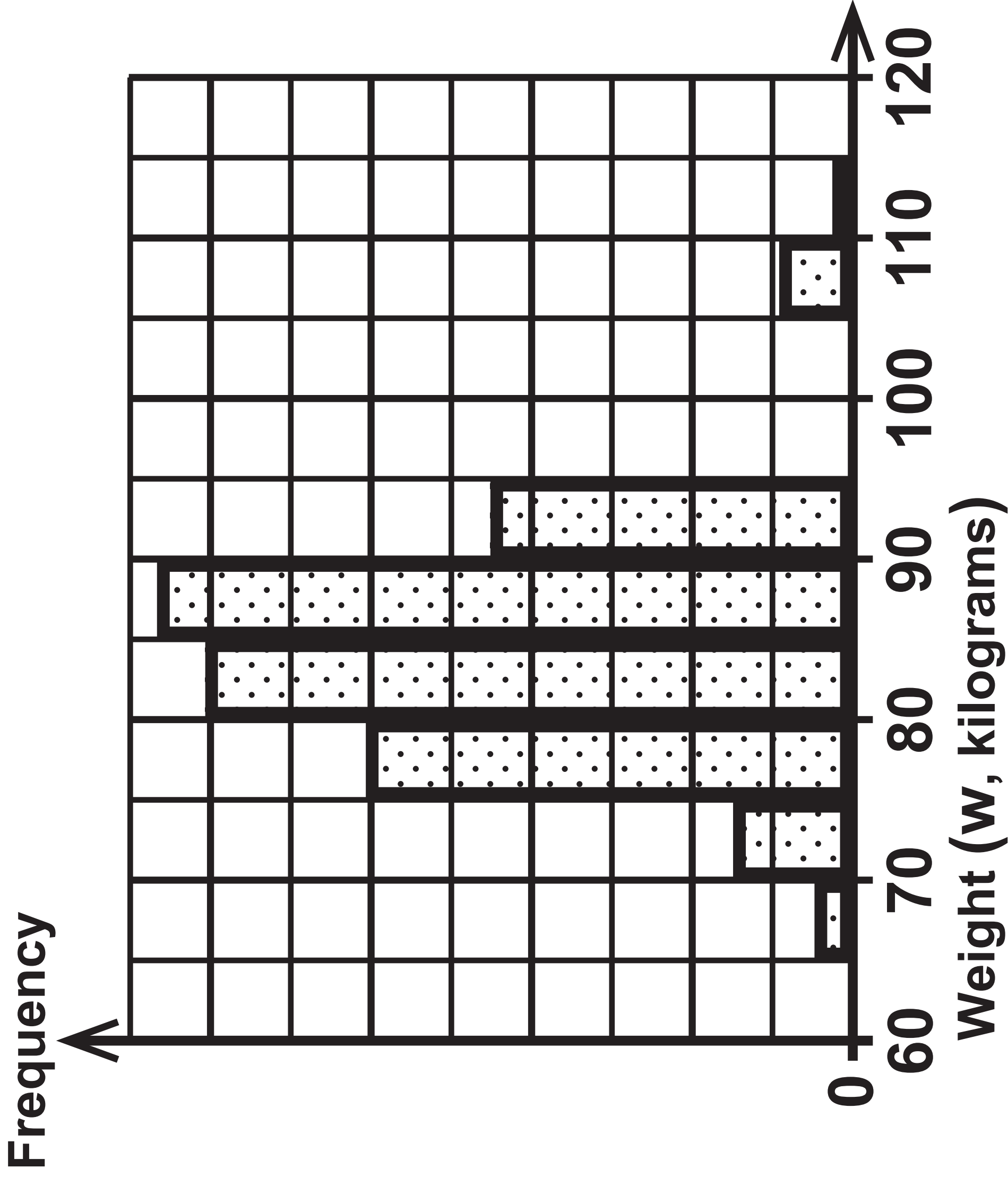
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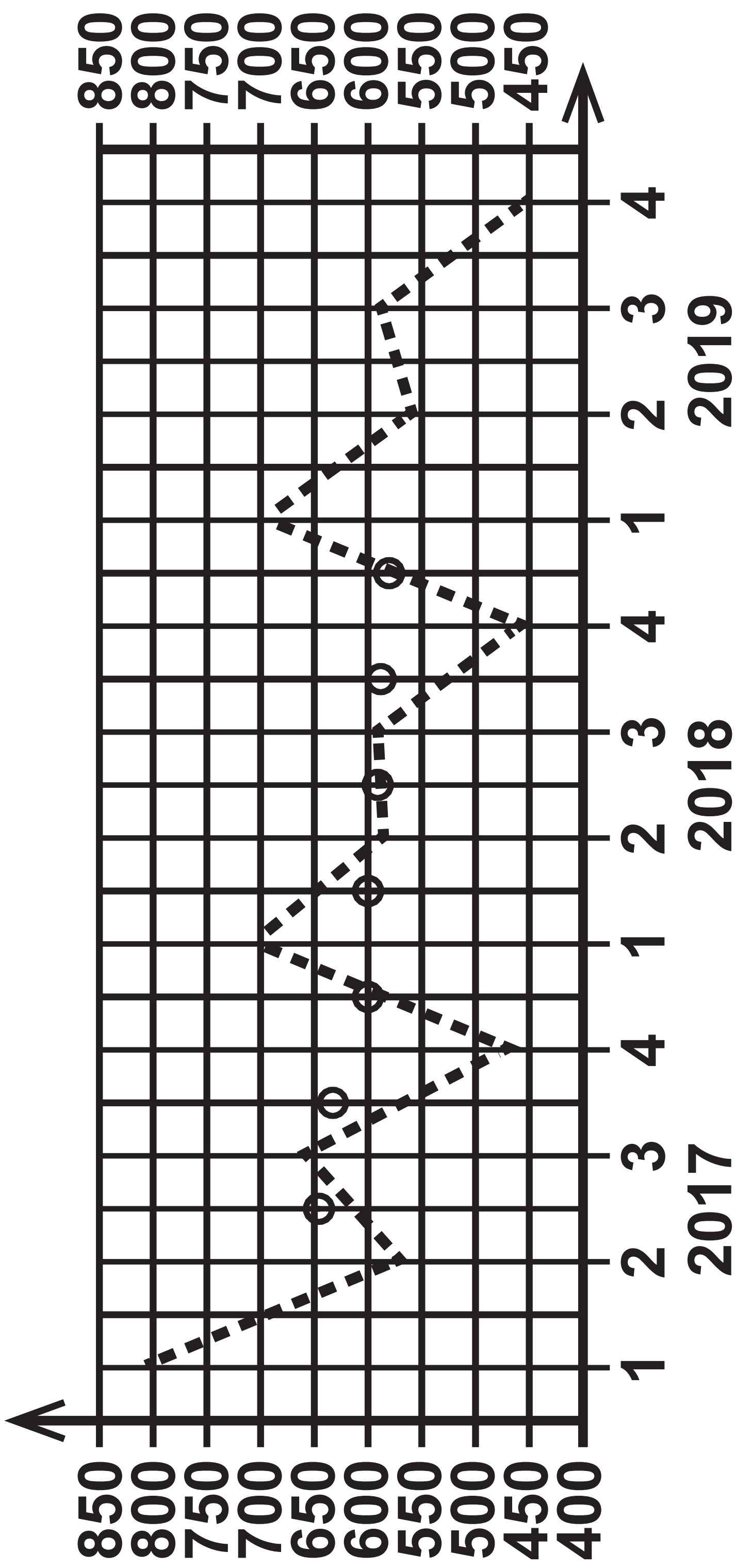


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Question 3

Diagram 2

Car registrations (thousands)



Quarter and year

Question 5(b)

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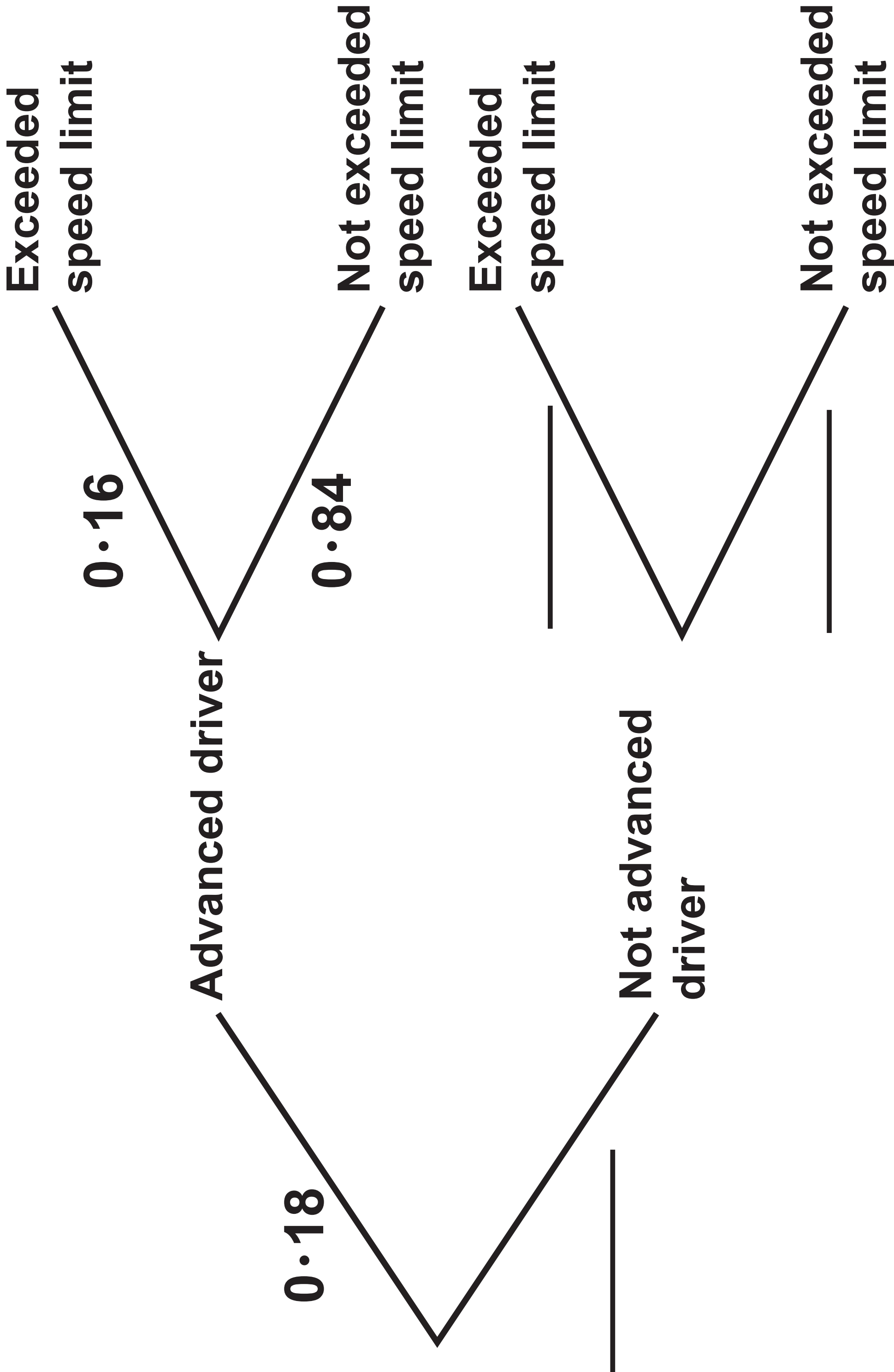
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Question 5(b) continued.

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Sources

Question 2

Source: www.kaggle.com

Question 3

Source: www.gov.uk

Question 6

Source: gold.org

Question 7

Source: www.adfg.alaska.gov

Question 9

Source: mathsci.solano.edu/

Question 10

Source: www.jstor.org