

Paper Reference 1ST0/2H
Pearson Edexcel
Level 1/Level 2 GCSE (9–1)

Statistics
Paper 2
(Calculator)
Higher Tier

Tuesday 18 June 2019 – Morning

Data Book

**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 BOOK MUST BE
RETURNED WITH THE QUESTION
PAPER AT THE END OF THE
EXAMINATION.**

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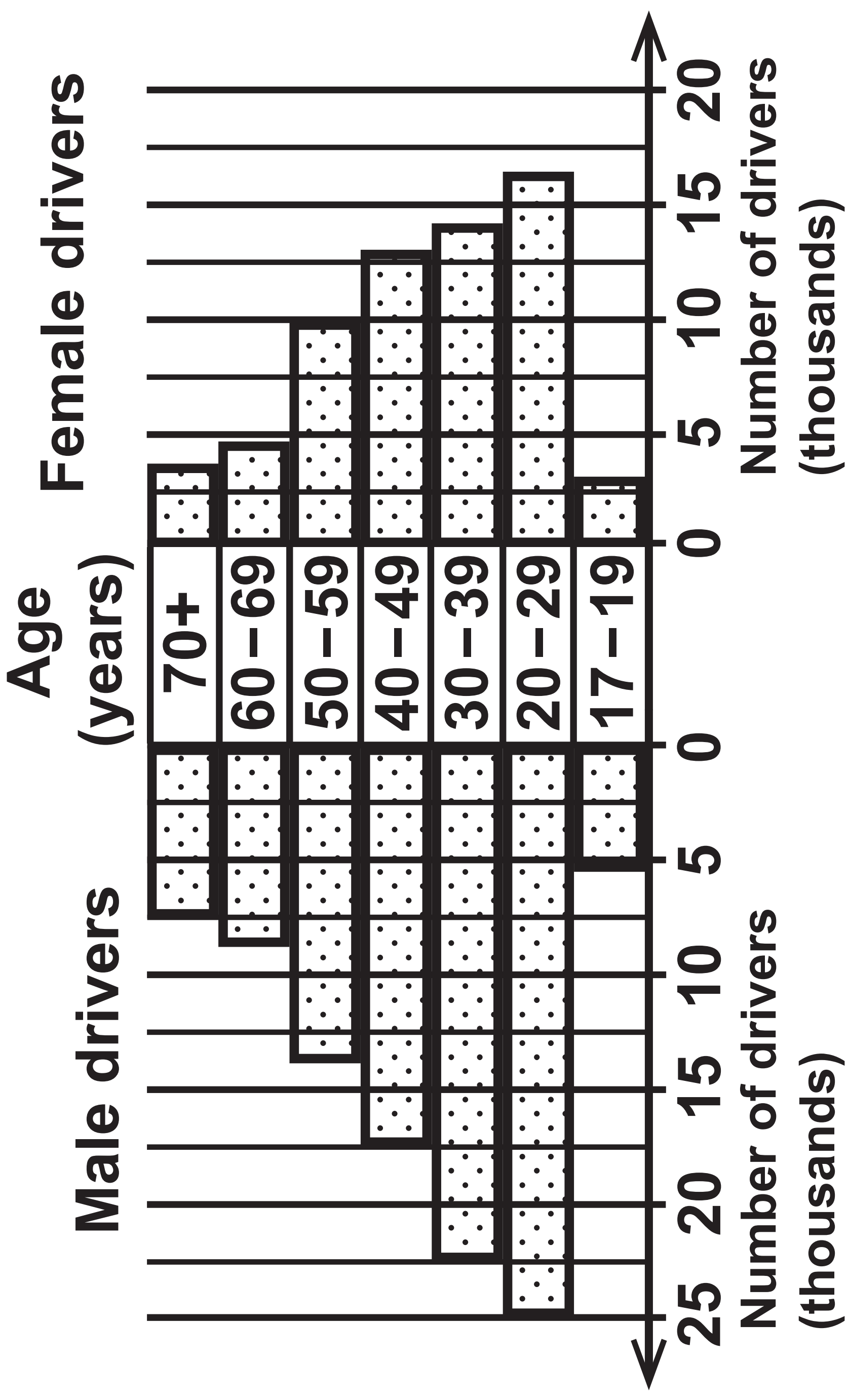
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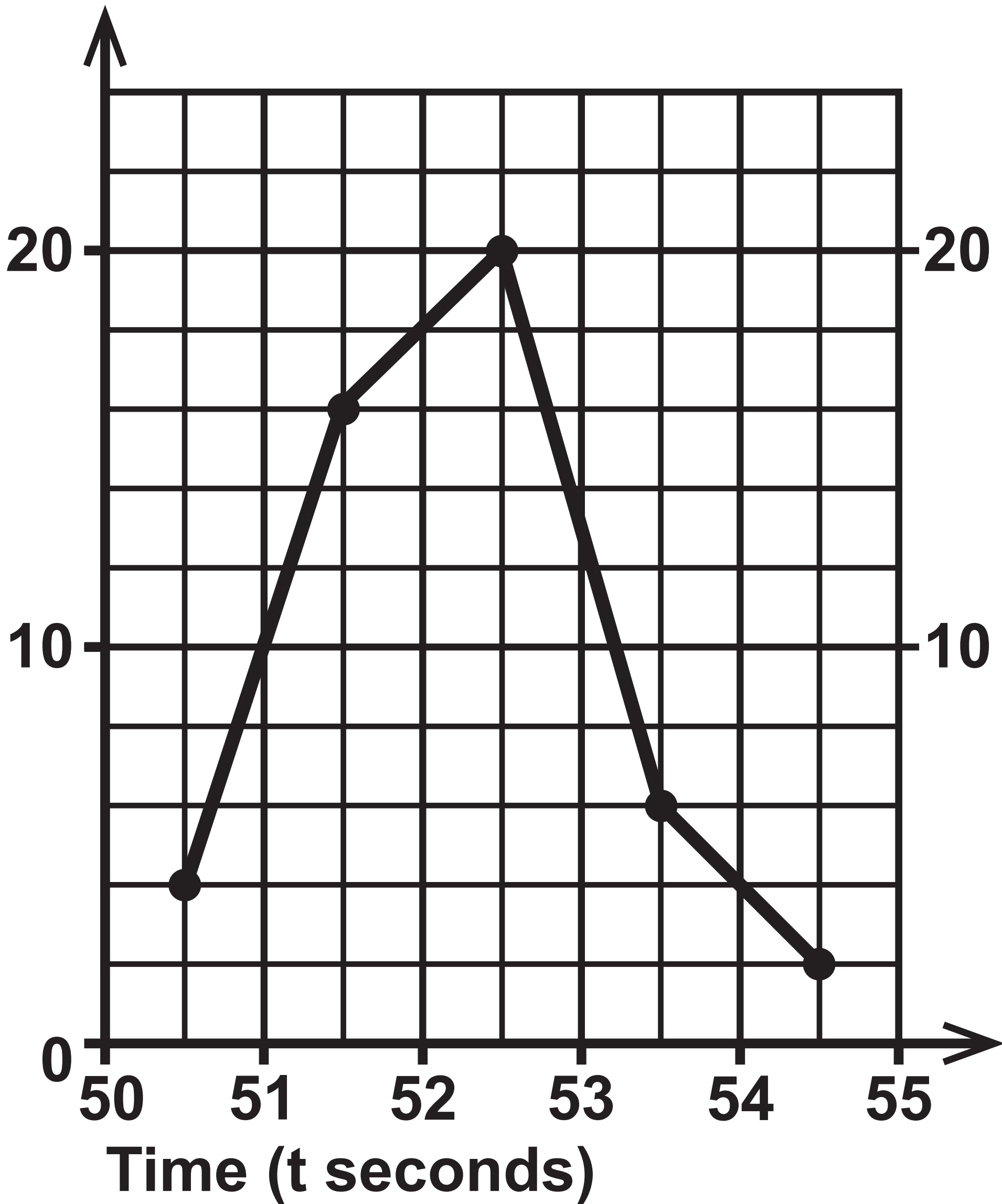
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Question 2



(Source: adapted from Department for Transport)

Frequency



(Source: adapted from www.iaaf.org)

| Time (t seconds) | Frequency |
|----------------------------------|-----------|
| $\text{---} < t \leq \text{---}$ | 6 |

| Time (t seconds) | Frequency |
|----------------------------------|-----------|
| $\text{---} < t \leq \text{---}$ | 6 |

| | |
|---|-------------------------|
| 1 | 7 |
| 2 | 4 8 1 7 9 1 4 0 3 7 0 0 |
| 3 | 4 4 1 1 2 4 4 1 5 0 7 |
| 4 | 3 8 9 2 |
| 5 | 2 5 |

(Source: nfl.com)

Question 5

The seven figures below show the amount, in £ millions, of UK aid given to Ethiopia for each of the years 2009 to 2015

219 263 344 265
329 321 338

The table below gives a summary of the amount, in £ millions, of UK aid given to Pakistan for the years 2009 to 2015

| Mean | Standard deviation | Greatest amount |
|-------|--------------------|-----------------|
| 243·7 | 79·5 | 374 |

(Source: dfid.gov.uk)

| | Consumer price index (CPI) |
|-----------|-------------------------------|
| July 2015 | 100 |
| Jan 2016 | 99·5 |
| July 2016 | 100·6 |
| Jan 2017 | 101·4 |
| July 2017 | 103·2 |

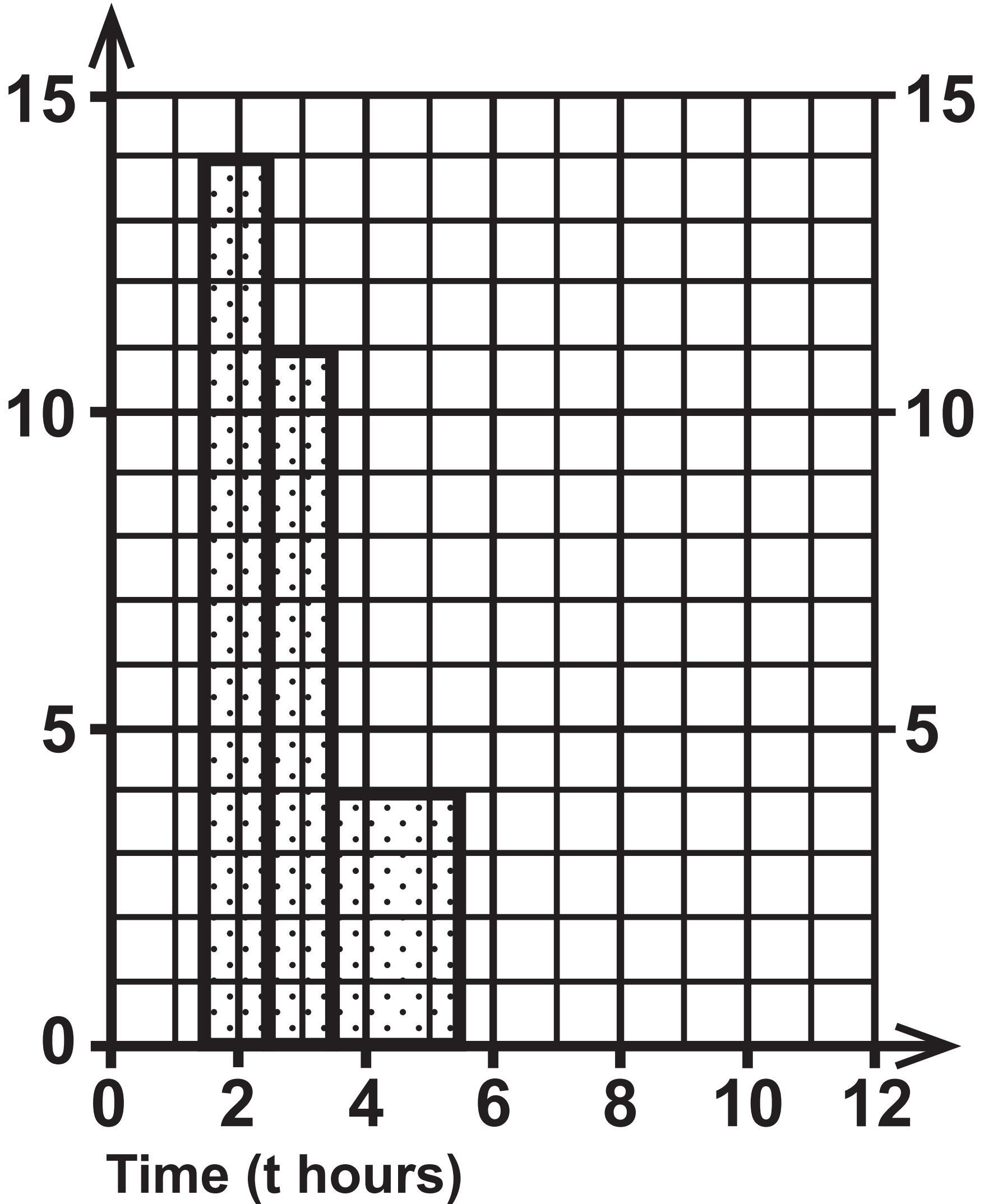
(Source: ons.gov.uk)

Question 6(b)

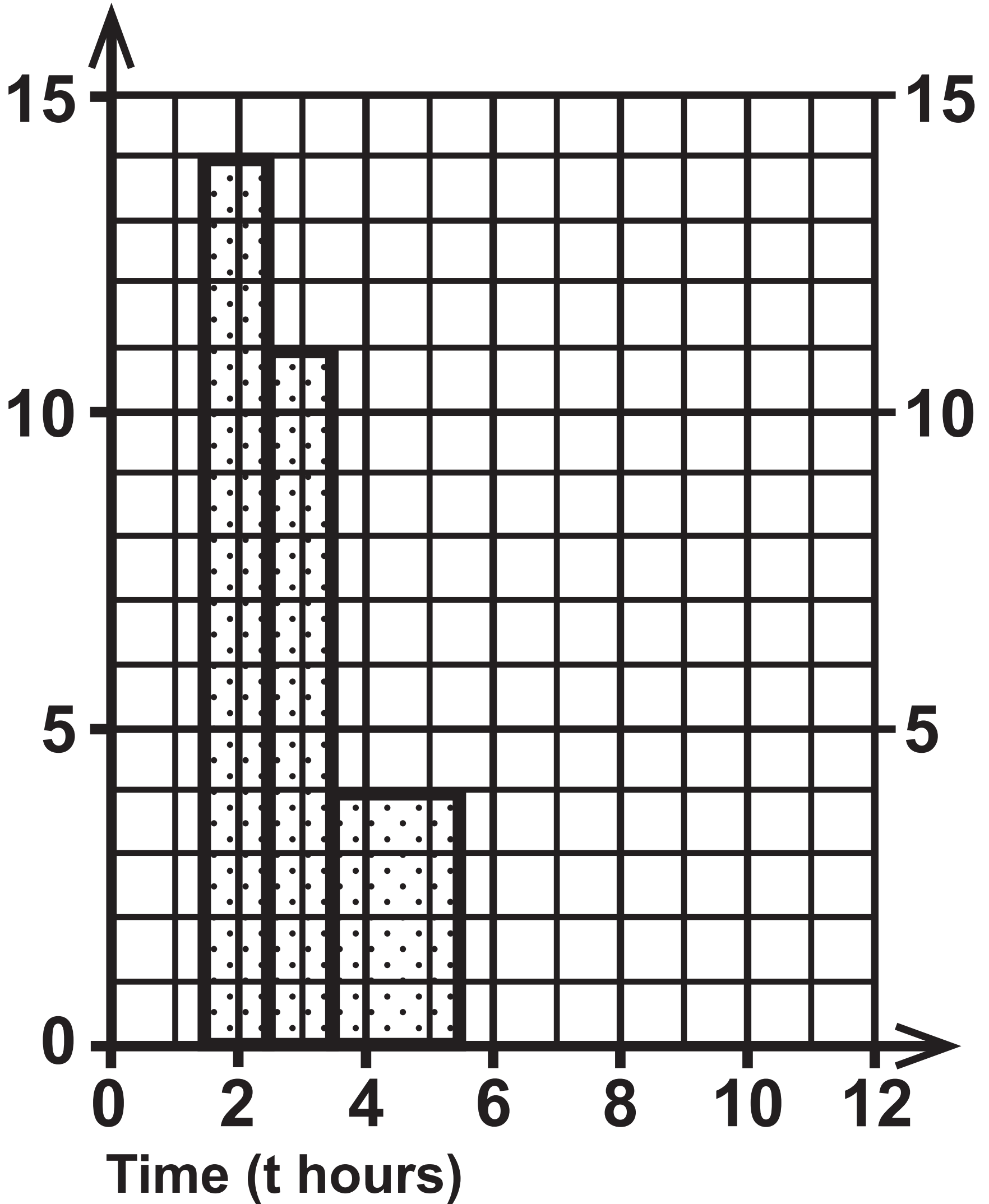
The CPI is a weighted index.
It measures the changes in the prices of consumer goods and of services only using the weightings as shown in the table below.

| | weighting |
|----------|-----------|
| goods | 525 |
| services | 475 |

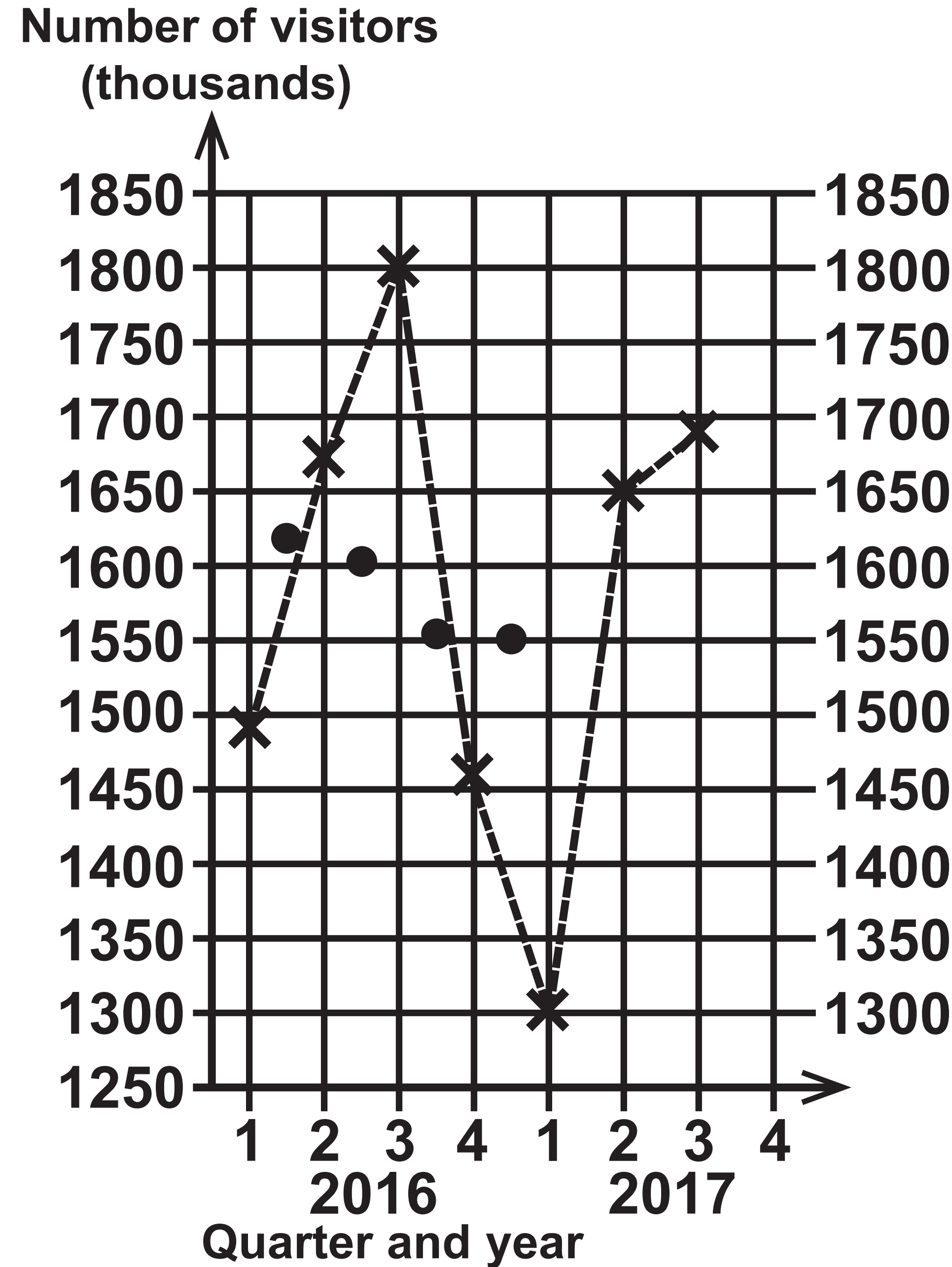
Frequency density



Frequency density

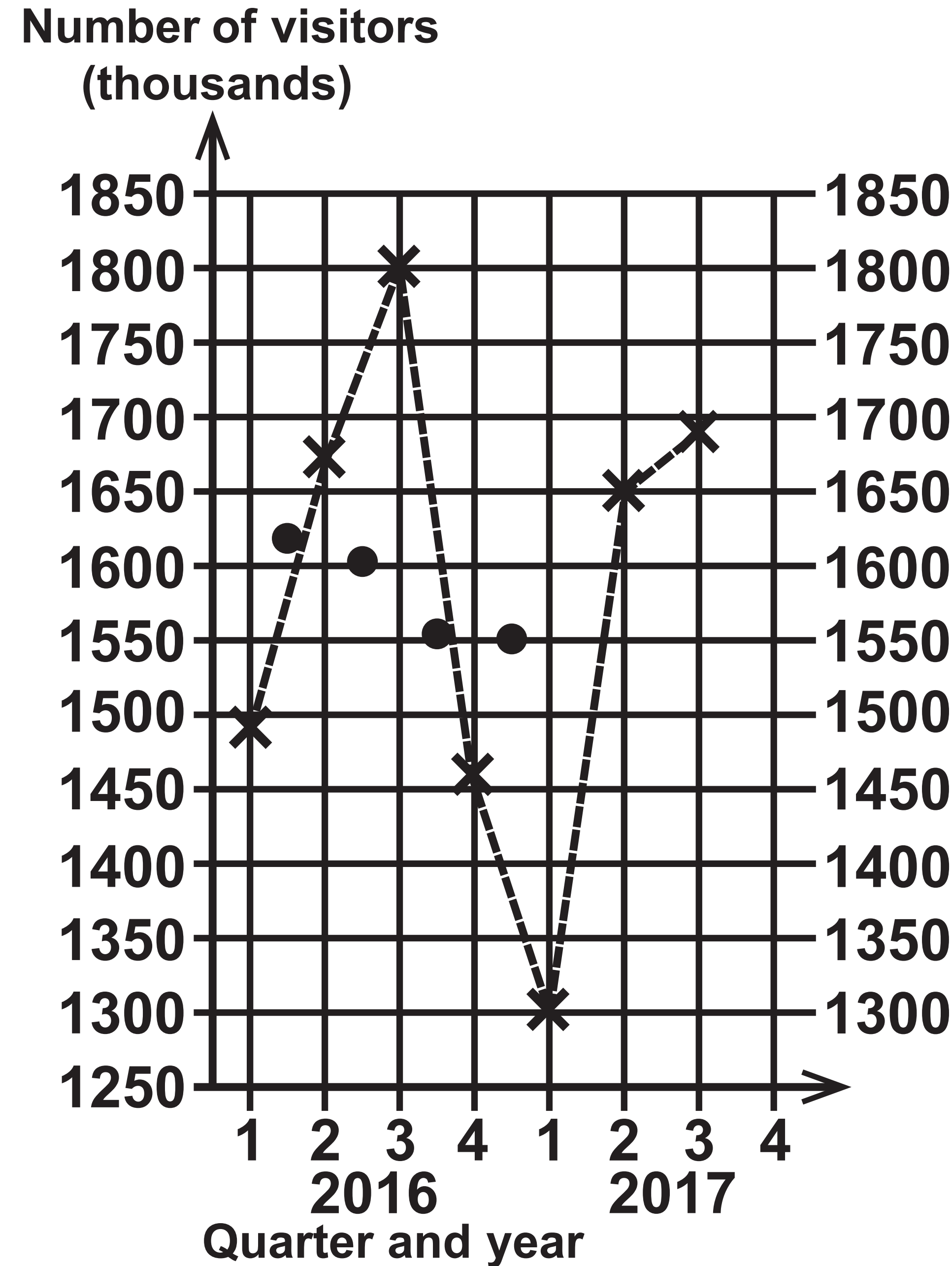


Question 8



(Adapted from: Department for Digital, Culture, Media and Sport)

Question 8



(Adapted from: Department for Digital, Culture, Media and Sport)

| Mean | Standard deviation |
|------|--------------------|
| 55 | 8 |

Noah collects information from 50 athletes and records the data in a spreadsheet.

He sorts the data from the least reaction time to the greatest reaction time.

The first few rows and last few rows of his spreadsheet are shown on the next page.

Here are some of the summary statistics for all the data.

$$\sum s = 88$$

$$\sum s^2 = 210$$

$$n = 50$$

$$\text{standard deviation} = 1.05$$

$$\text{range} = 5.4$$

| Reaction time, s seconds |
|--------------------------|
| 0·3 |
| 0·4 |
| 0·7 |
| 0·8 |
| |
| |
| 3·0 |
| 3·1 |
| 3·6 |
| 5·3 |
| 5·7 |

Question 11(c)

Diagram 1

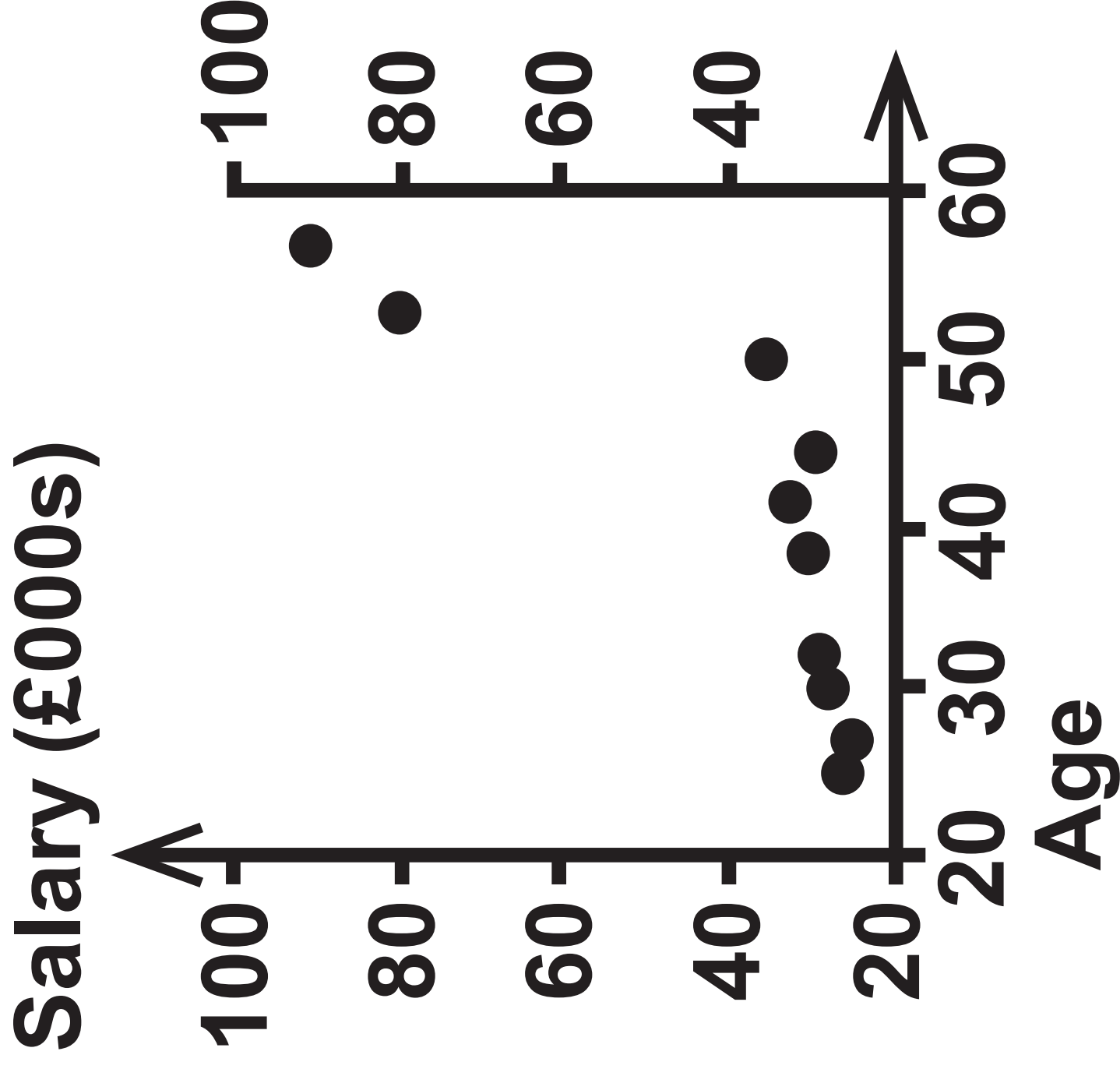
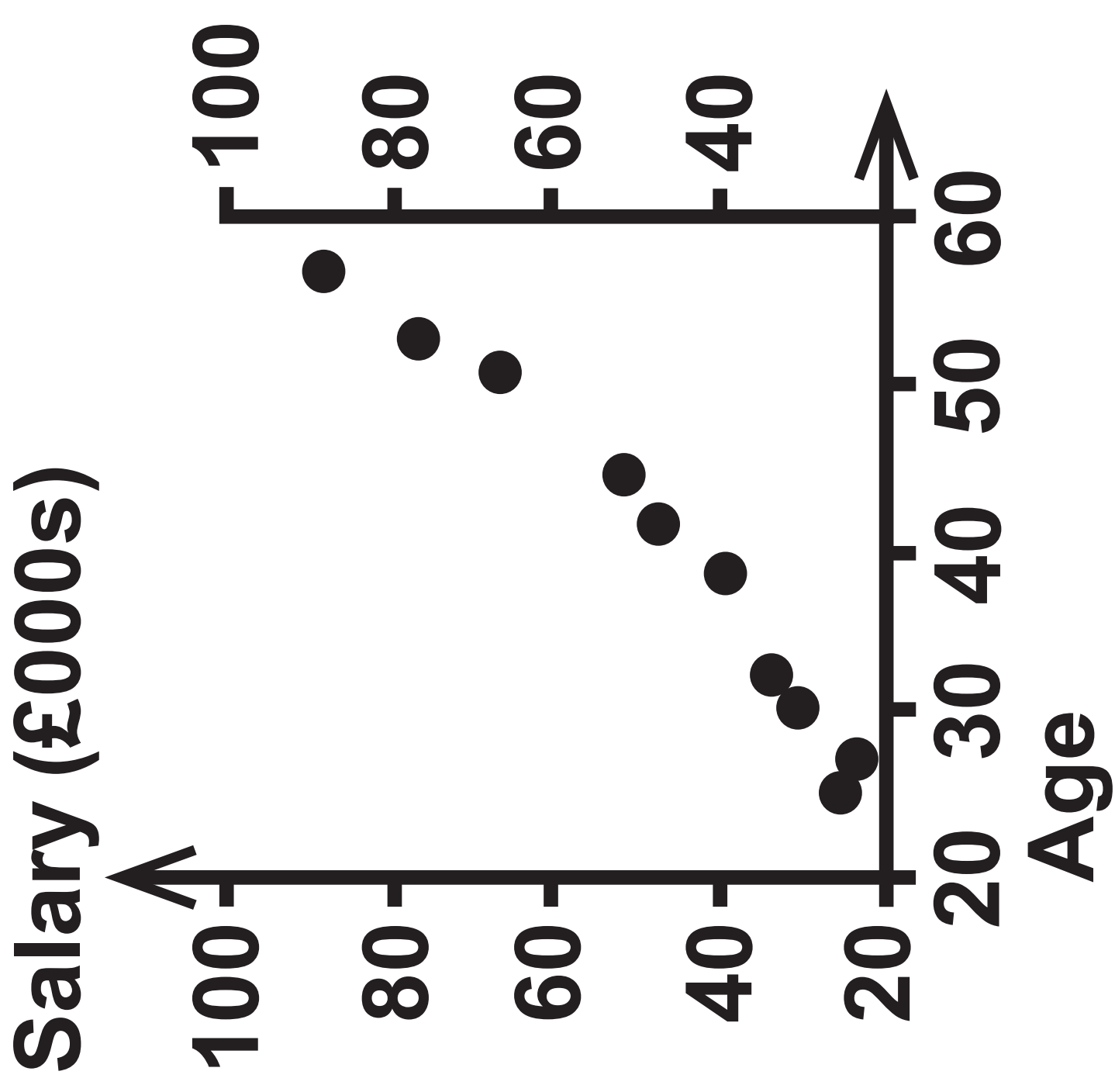


Diagram 2



| Number of heads | Frequency |
|-----------------|-----------|
| 0 | 24 |
| 1 | 41 |
| 2 | 30 |
| 3 | 5 |