

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

Statistics
Paper 1
(Calculator)
Foundation Tier

Thursday 13 June 2019 – Afternoon

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.

Contents

Page

| | |
|-----------|------------------------------------|
| 5 | Question 1(a) |
| 6 | Question 1(a) (Spare copy) |
| 7 | Question 1(c) |
| 8 | Question 1(c) (Spare copy) |
| 9 | Question 1(d) |
| 10 | Question 1(d) (Spare copy) |
| 11 | Question 2 |
| 12 | Question 2 (Spare copy) |
| 13 | Question 3(b) |
| 14 | Question 3(b) (Spare copy) |
| 15 | Question 4 |
| 16 | Question 6(b) |
| 17 | Question 8(b) |
| 18 | Question 9 |
| 19 | Question 9 (Spare copy) |
| 20 | Question 10 |
| 21 | Question 11 |
| 22 | Question 11 (Spare copy) |
| 23 | Question 12 |
| 24 | Question 12(b) |
| 25 | Question 12(b) (Spare copy) |

(continued on the next page)

Contents continued.

Page

26 Question 13

27 Question 15

28 Question 17

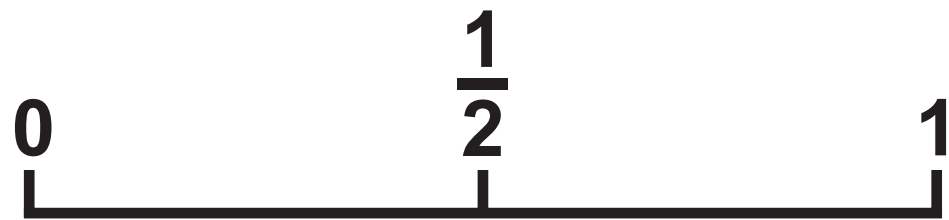
Question 1(a)

impossible certain evens unlikely likely

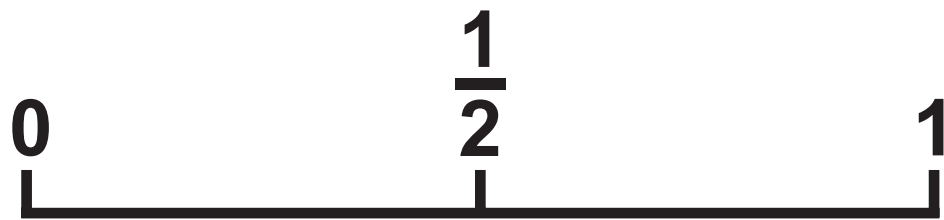
Question 1(a)

impossible certain evens unlikely likely

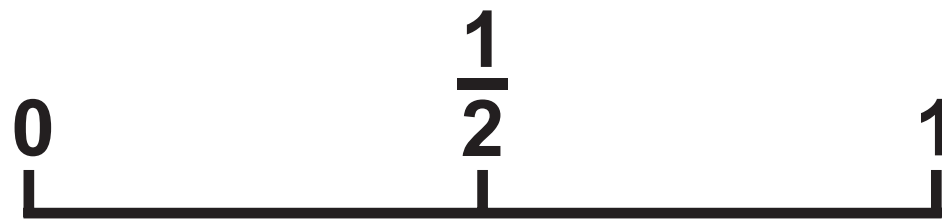
Question 1(c)



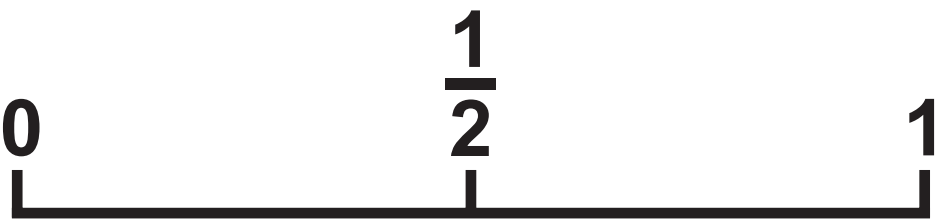
Question 1(c)



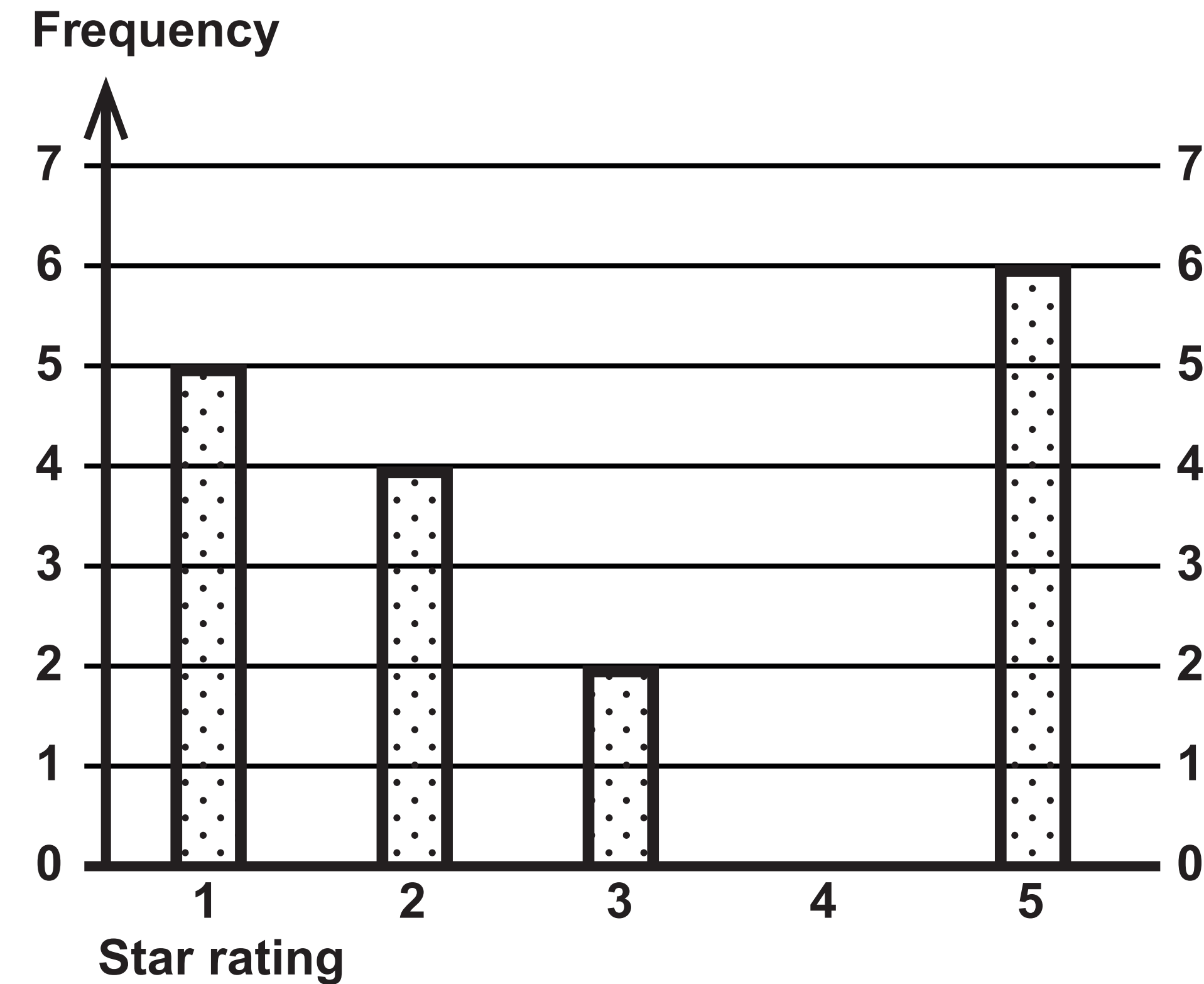
Question 1(d)



Question 1(d)

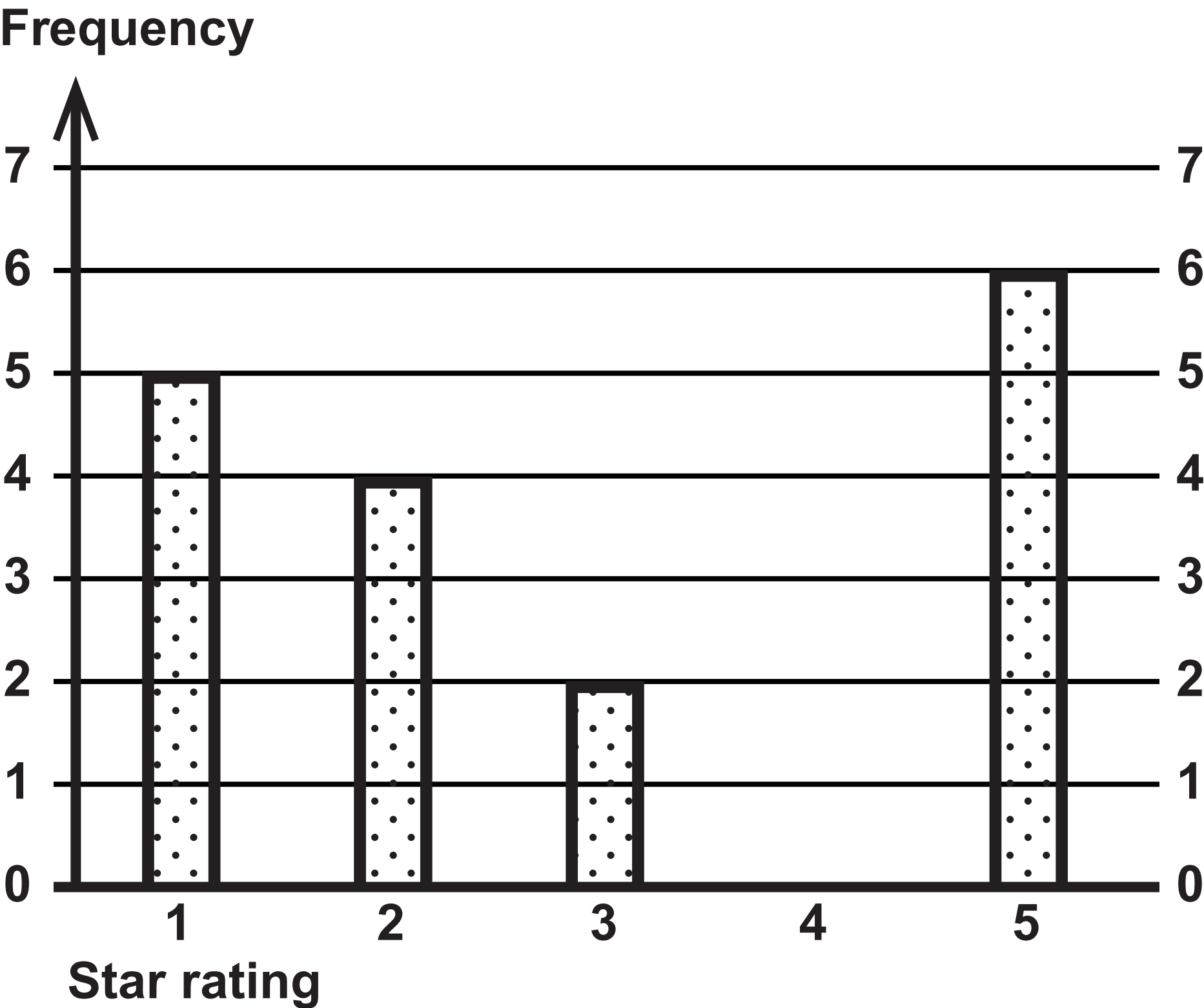


Question 2



(Source: www.amazon.co.uk)

Question 2



(Source: www.amazon.co.uk)

Question 3(b)

| Number of British Oscar winners | Tally | Frequency |
|---------------------------------|-------|-----------|
| 1 or 2 | | |
| 3 or 4 | | |
| 5 or 6 | | |
| 7 or 8 | | |
| 9 or 10 | | |
| 11 or 12 | | |





Question 3(b)

| Number of British Oscar winners | Tally | Frequency |
|---------------------------------|-------|-----------|
| 1 or 2 | | |
| 3 or 4 | | |
| 5 or 6 | | |
| 7 or 8 | | |
| 9 or 10 | | |
| 11 or 12 | | |

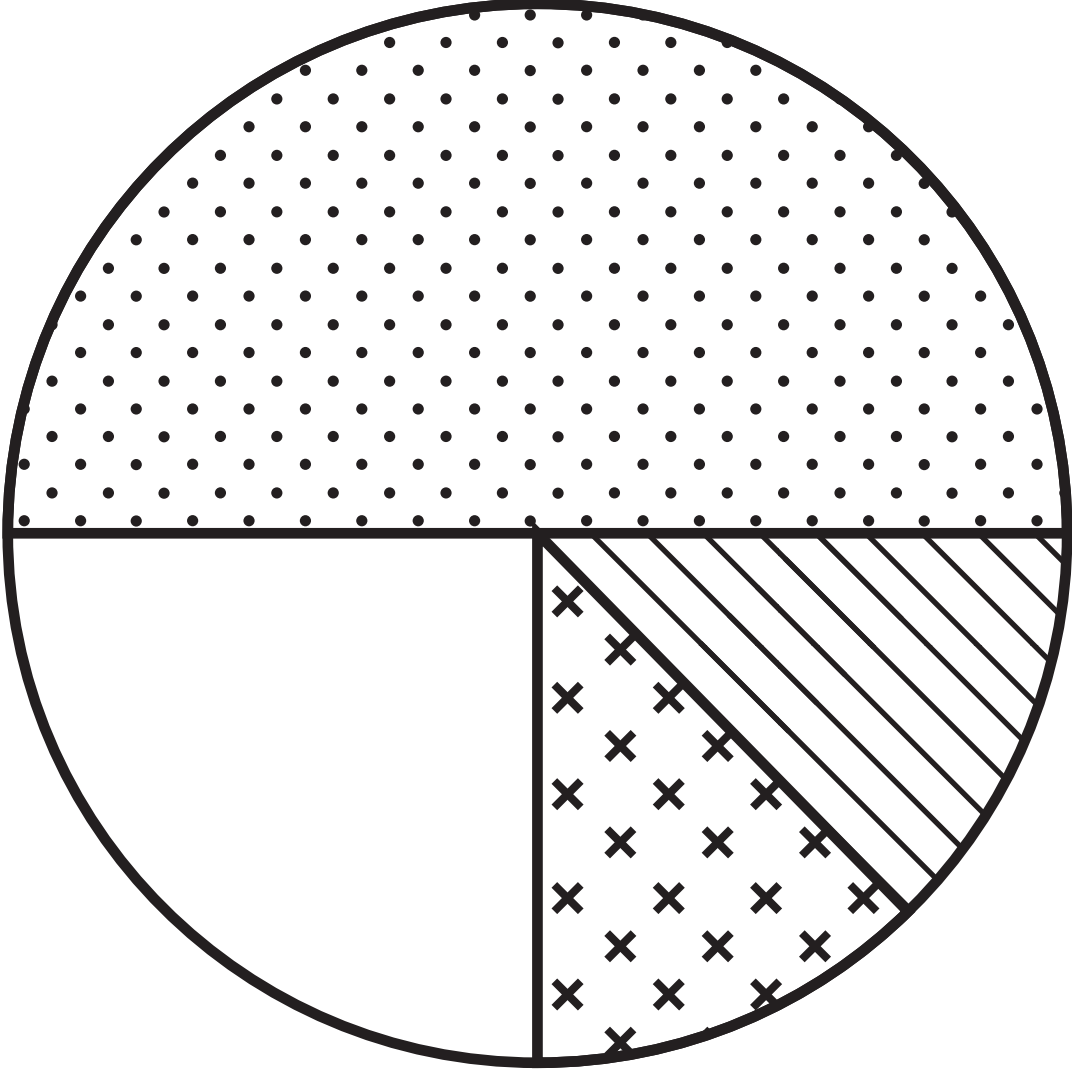
Question 4

| | | | | |
|------|------|------|------|-----|
| 9·2 | 4·3 | 68·2 | 12·3 | 6·5 |
| 10·6 | 14·2 | 16·0 | 9·1 | 8·5 |

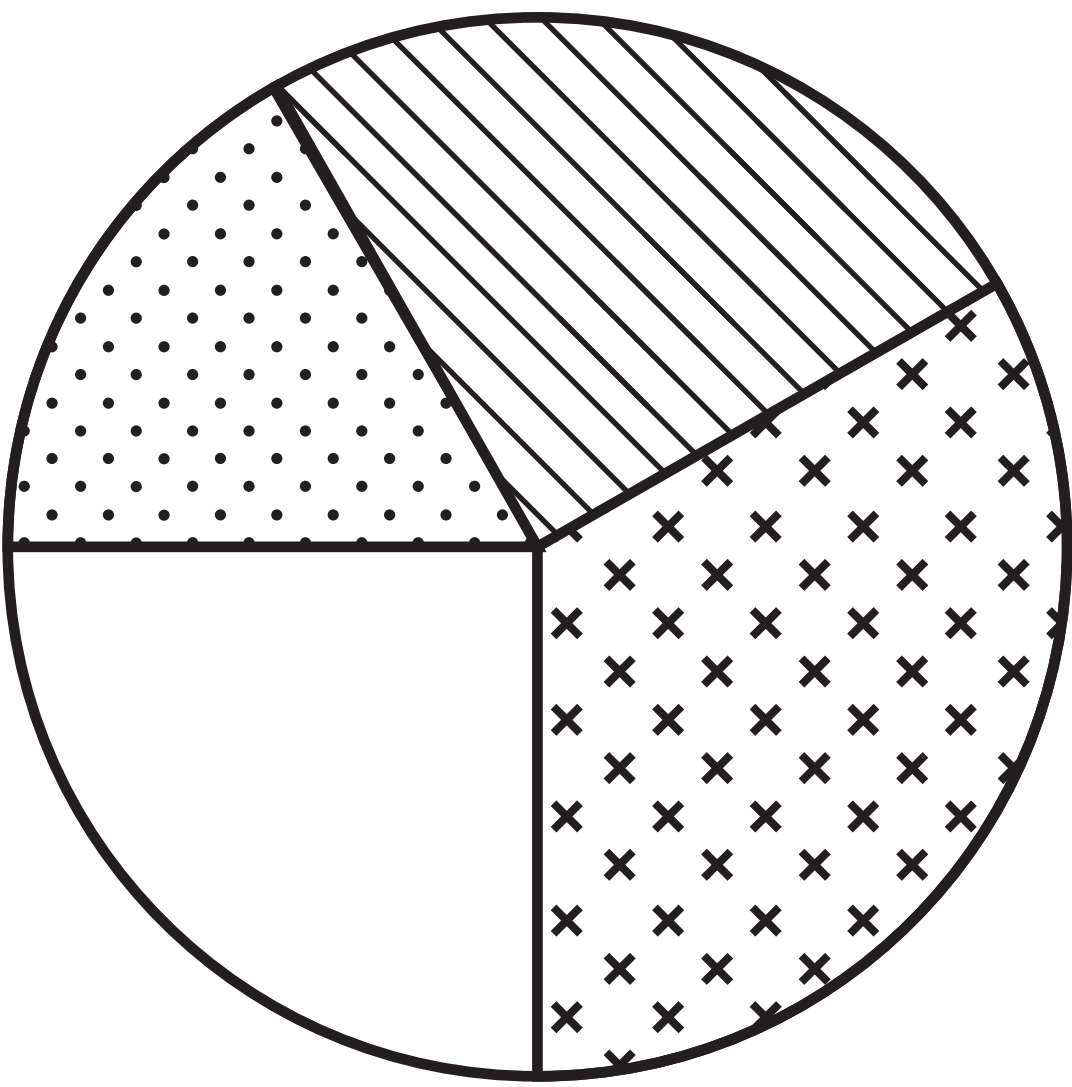
Question 6(b)

-  Pizza
-  Pasta
-  Salad
-  Meat

Male customers



Female customers



Question 8(b)

| Number of days | Frequency |
|----------------|-----------|
| 0 | 6 |
| 1 | 5 |
| 2 | 5 |
| 3 | 3 |
| 4 | 5 |
| 5 | 2 |
| 6 | 0 |
| 7 | 3 |
| 8 | 1 |

Ami’s method is

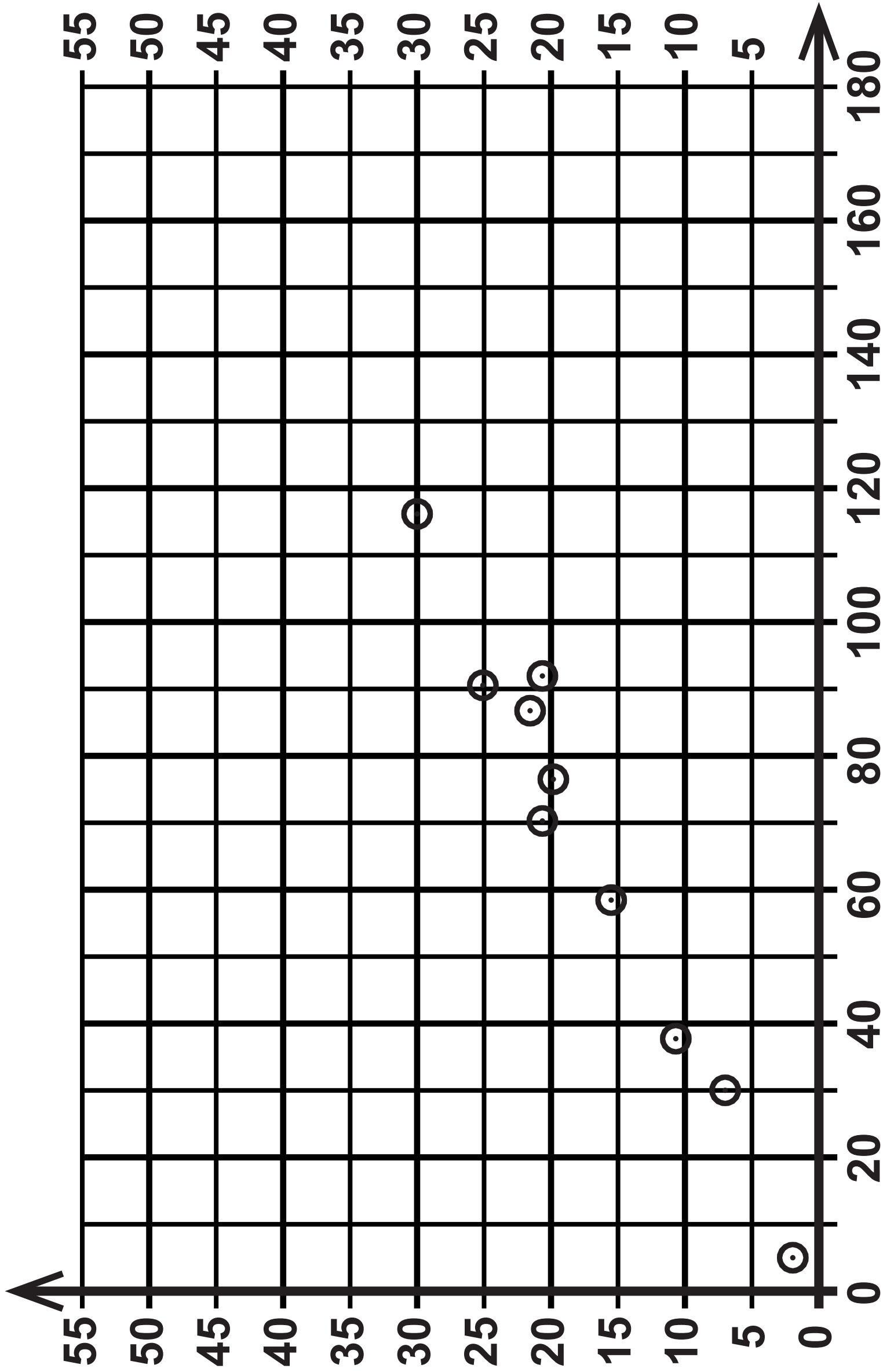
$$\frac{0 + 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8}{9}$$

Tia’s method is

$$\frac{0 \times 6 + 1 \times 5 + 2 \times 5 + 3 \times 3 + 4 \times 5 + 5 \times 2 + 6 \times 0 + 7 \times 3 + 8 \times 1}{30}$$

Question 9

Maximum number of passengers (hundreds)

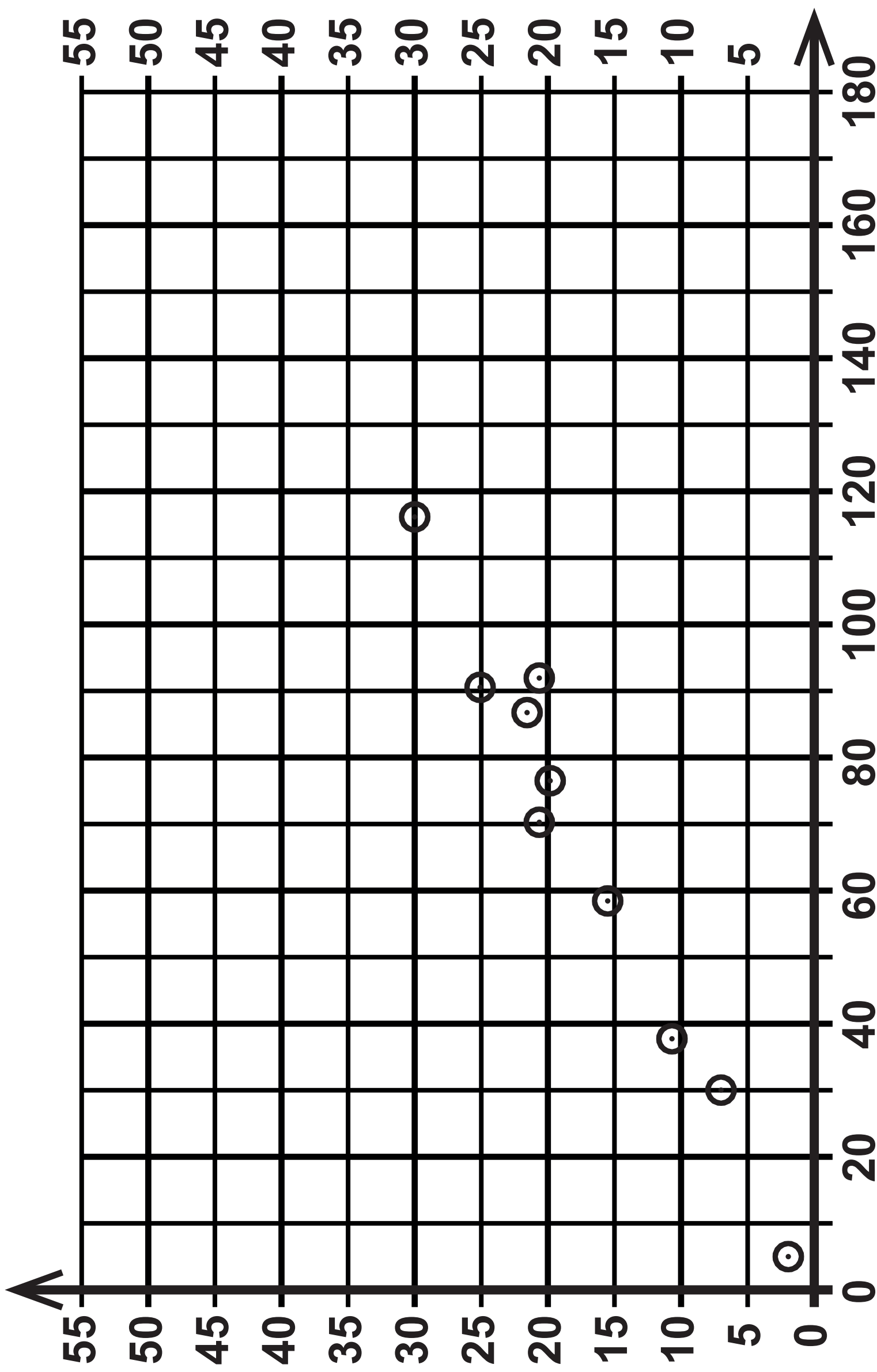


Weight (thousand tons)

(Source: www.stat.ufl.edu)

Question 9

Maximum number of passengers (hundreds)



Weight (thousand tons)

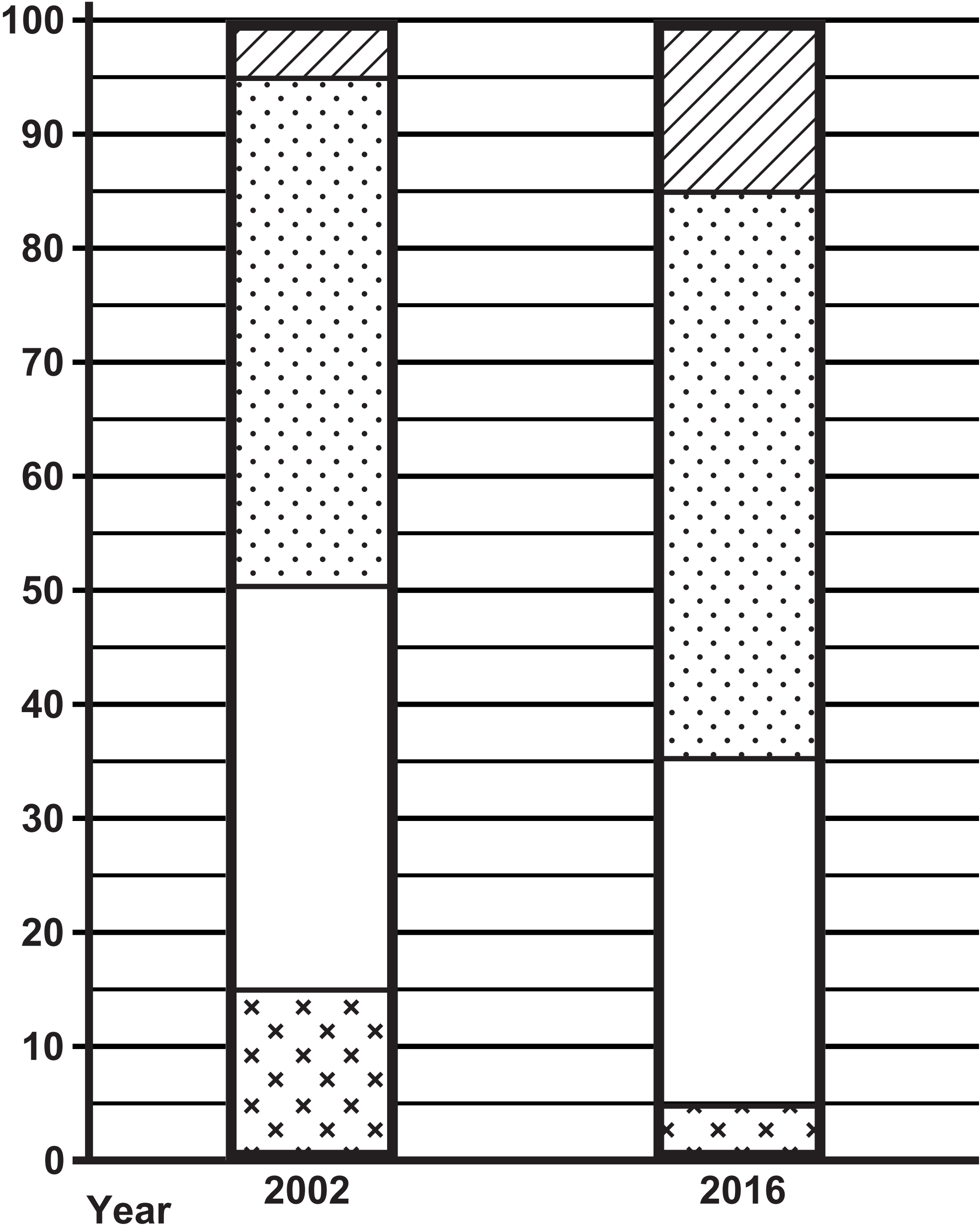
(Source: www.stat.ufl.edu)

Question 10

Key:

- 50 or over
- 30–49
- 21–29
- 20 or under

Percentage



Question 11

Key:

Number of children

9 or more

6–8

3–5

0–2

| | | | | |
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Question 11

Key:

Number of children

9 or more

6–8

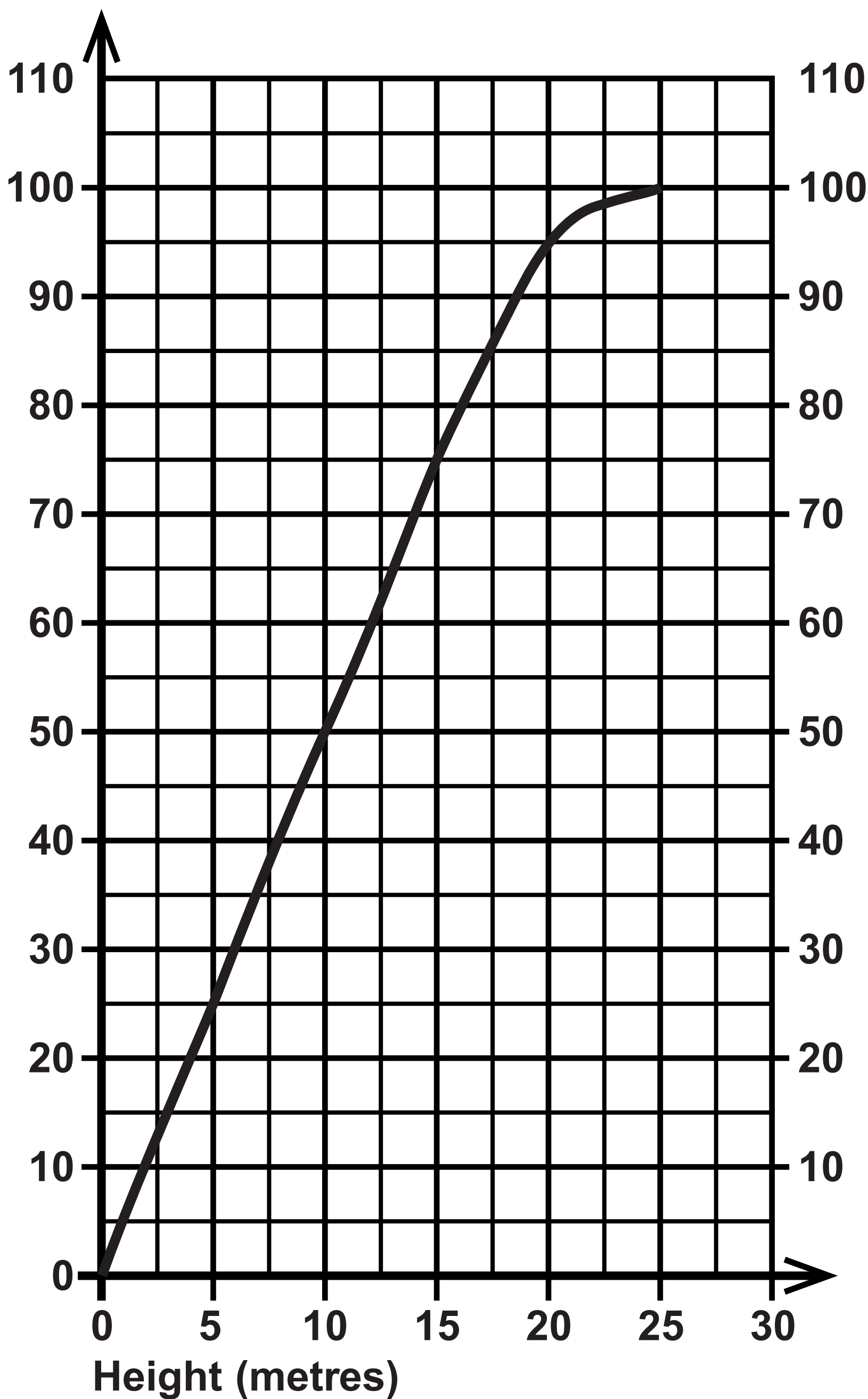
3–5

0–2

| | | | | |
|-------------|-------------|-------------|-------------|-------------|
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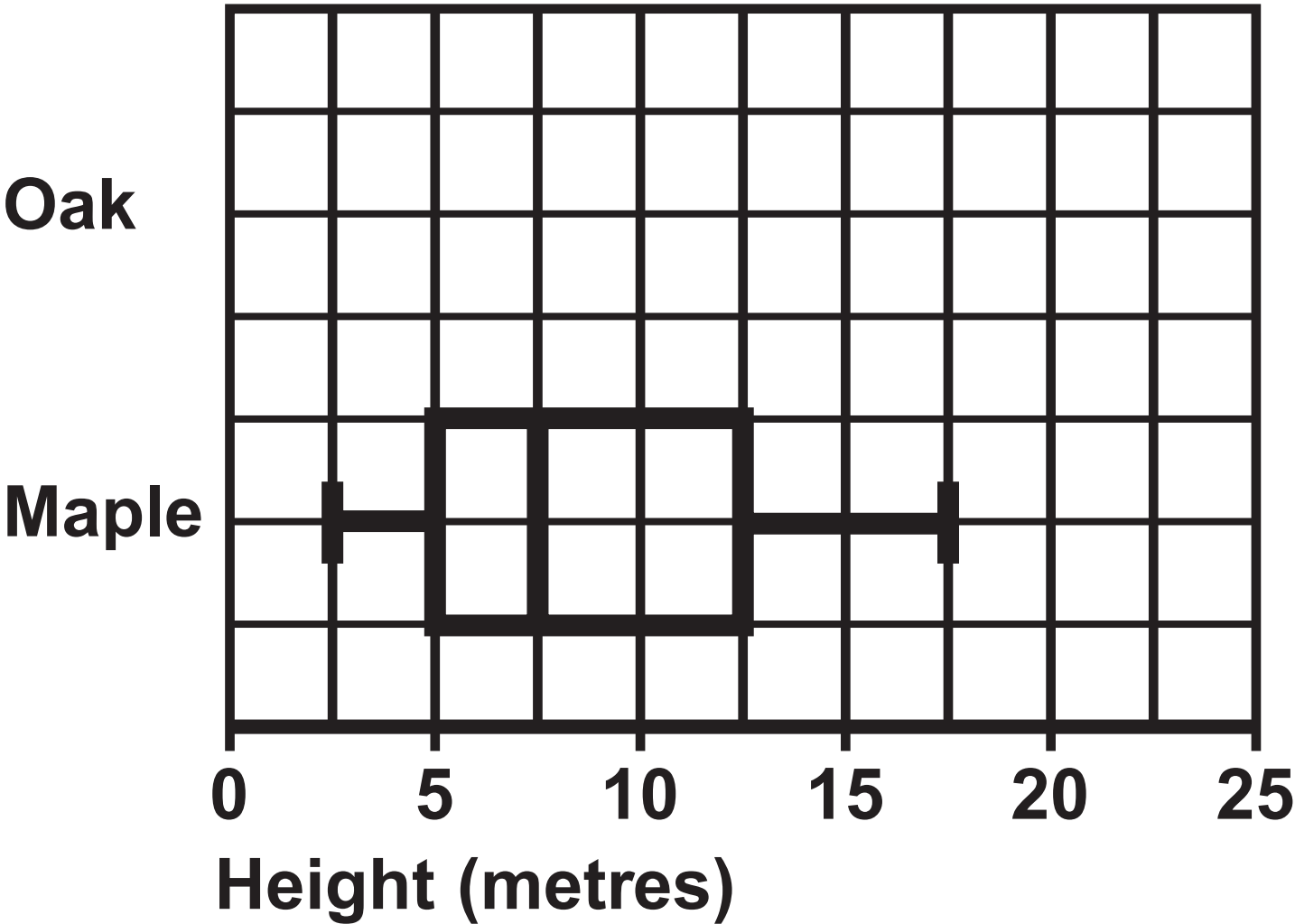
Question 12

Cumulative frequency

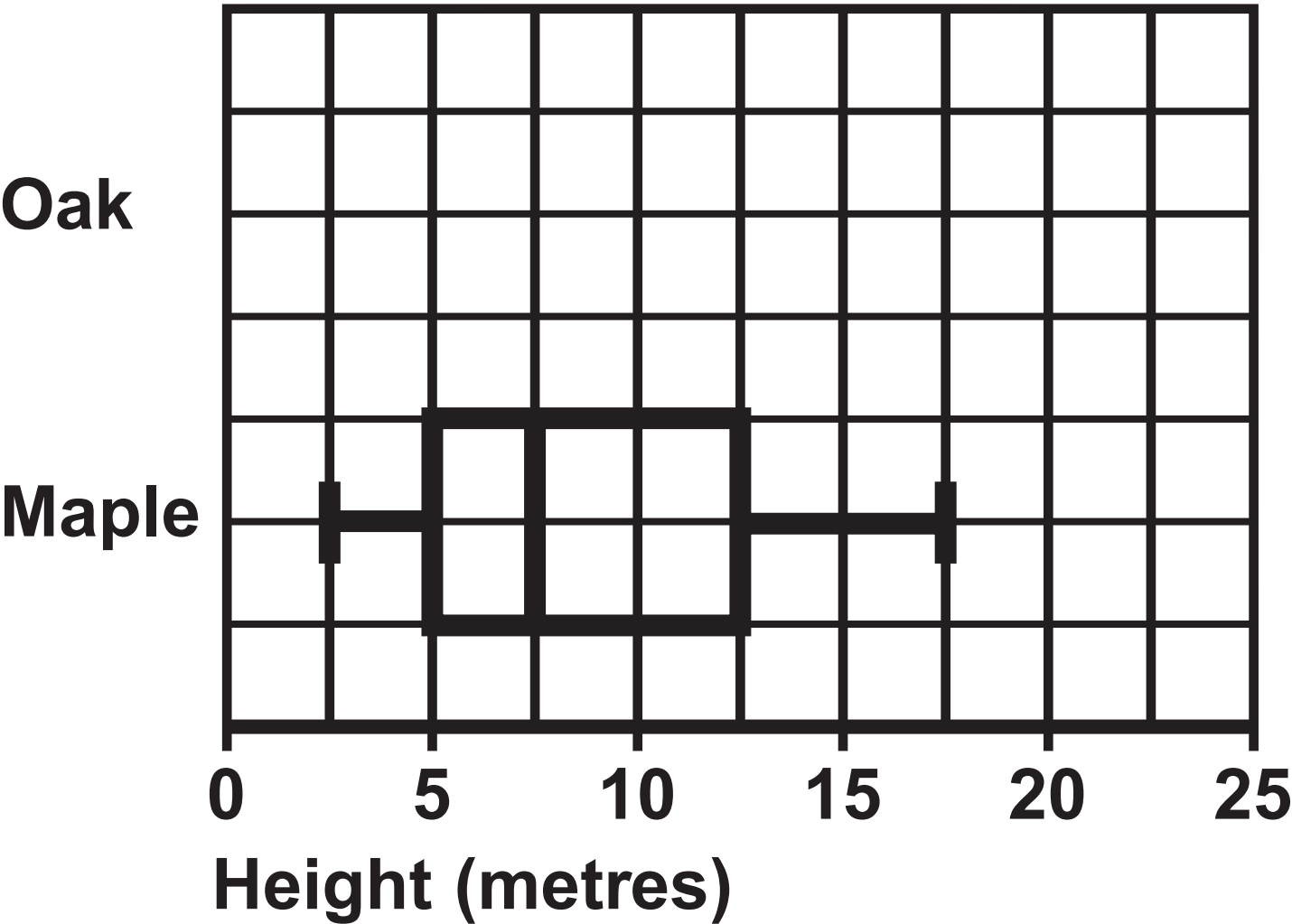


(Adapted from: opendata.camden.gov.uk)

Question 12(b)



Question 12(b)



Question 13

| Type of school | Applications in 2016 | | |
|--------------------|----------------------|--------|-------|
| | Gender | | Total |
| | Male | Female | |
| Maintained | 3674 | 2899 | 6573 |
| Independent | 1510 | 1268 | 2778 |
| Other and Overseas | 300 | 312 | 612 |
| Total | 5484 | 4479 | 9963 |

(Source: www.cam.ac.uk)

Question 15

A driving school has **40** cars.

The cars are either petrol cars or diesel cars.

The cars have either a manual gearbox or an automatic gearbox.

16 of the cars have an automatic gearbox.

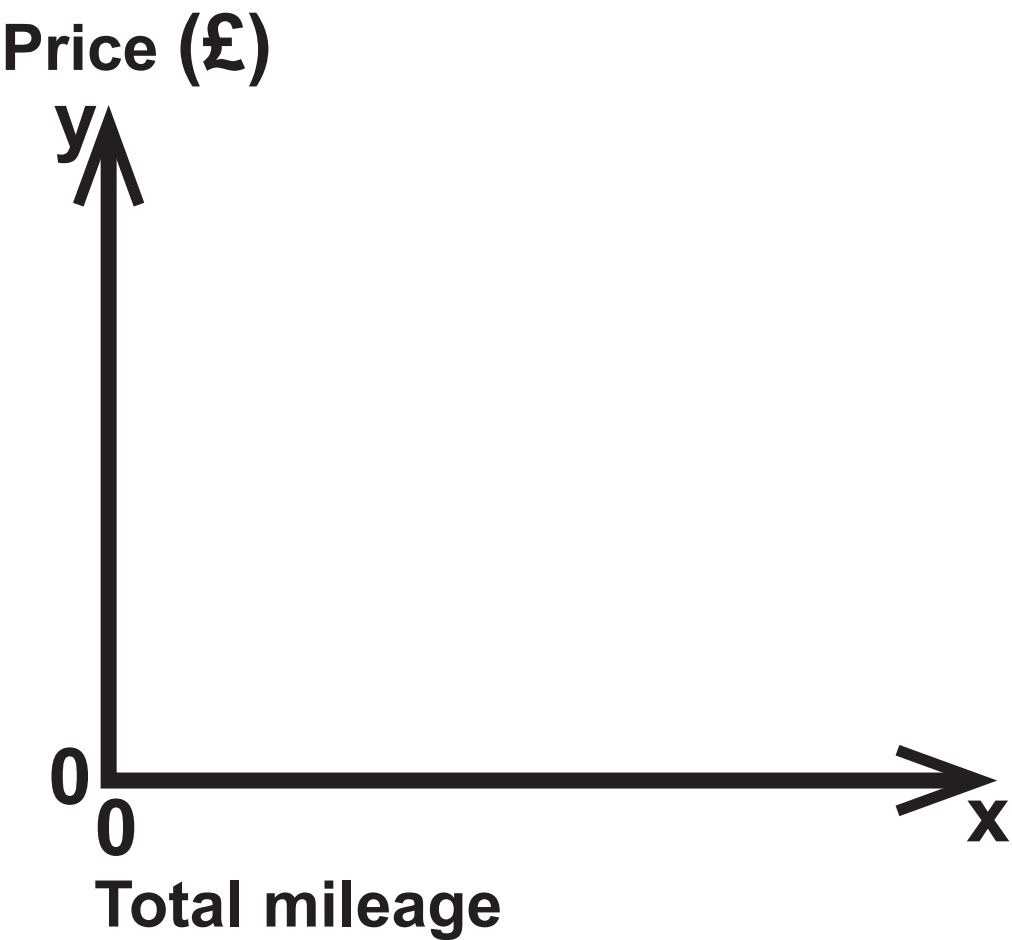
10 of the petrol cars have an automatic gearbox.

There are **30** petrol cars.

One of the petrol cars is to be picked at random.

One of the diesel cars is to be picked at random.

Question 17



| Model | Gradient of line of best fit | Intercept of line of best fit on the y-axis |
|-------|------------------------------|---|
| A | -0.135 | 13 500 |
| B | -0.105 | 20 500 |