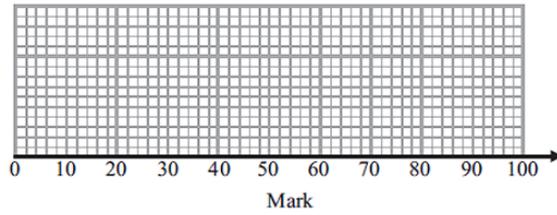


Q1 All the students in Mathstown school had a test.

- The lowest mark was 18
- The highest mark was 86
- The median was 57
- The lower quartile was 32
- The interquartile range was 38

On the grid, draw a box plot to show this information.



Q2 This frequency table gives information about the ages of 60 teachers.

Age (A) in years	Frequency
$20 < A \leq 30$	12
$30 < A \leq 40$	15
$40 < A \leq 50$	18
$50 < A \leq 60$	12
$60 < A \leq 70$	3

(a) Complete the cumulative frequency table.

Age (A) in years	Cumulative frequency
$20 < A \leq 30$	
$20 < A \leq 40$	
$20 < A \leq 50$	
$20 < A \leq 60$	
$20 < A \leq 70$	

(1)

(b) On the grid opposite, draw a cumulative frequency graph for this information.

(2)

(c) Use your cumulative frequency graph to find an estimate for the median age.

..... years  
(2)

(d) Use your cumulative frequency graph to find an estimate for the number of teachers older than 55 years.

.....  
(2)

Q3 The table shows information about the speeds of 100 lorries.

Speed (s) in km/h	Frequency
$0 < s \leq 20$	2
$20 < s \leq 40$	9
$40 < s \leq 60$	23
$60 < s \leq 80$	31
$80 < s \leq 100$	27
$100 < s \leq 120$	8

(a) Complete the cumulative frequency table for this information.

Speed (s) in km/h	Cumulative frequency
$0 < s \leq 20$	2
$0 < s \leq 40$	
$0 < s \leq 60$	
$0 < s \leq 80$	
$0 < s \leq 100$	
$0 < s \leq 120$	

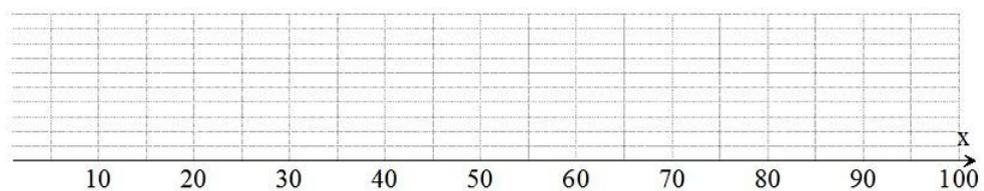
(1)

Q4. Tom kept a record of the amount of time birds spend in his garden over the past year.

The table below shows the information about the amount of time robins spent in his garden over that period.

	Minutes
Least amount of time	20
Range	60
Median	45
Lower quartile	30
Upper quartile	57.5

a. On the grid below, draw a boxplot to represent this information

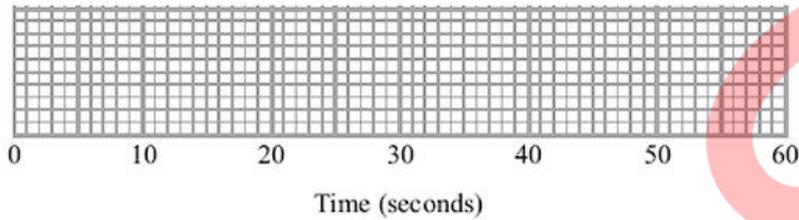


(2 Marks)

Q5 Here are the times, in seconds, that 15 people waited to be served at Rose's garden centre.

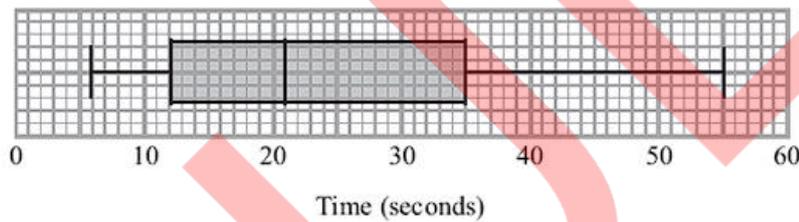
5 9 11 14 15 20 22 25 27 27 28 30 32 35 44

(a) On the grid, draw a box plot for this information.



(3)

The box plot below shows the distribution of the times that people waited to be served at Green's garden centre.

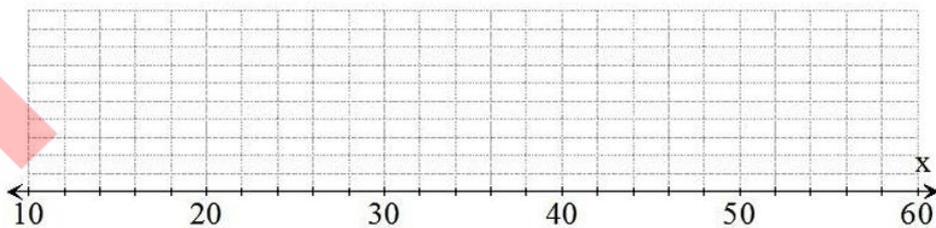


(b) Compare the distribution of the times that people waited at Rose's garden centre and the distribution of the times that people waited at Green's garden centre.

Q6 Students in year seven Calverton high school took part in English exams. The boy's results are summarised below.

- The lowest mark was 12
- The highest mark was 55
- The median was 32
- The upper quartile was 41
- The interquartile range was 22

a. On the grid below, draw a box plot to represent this information.

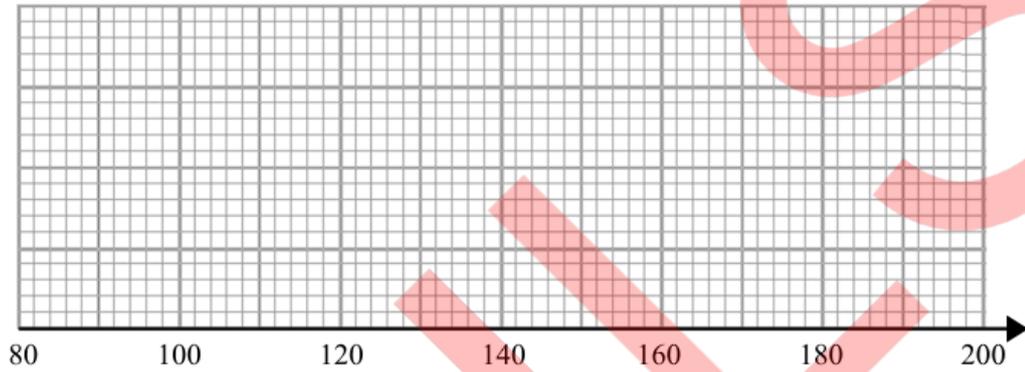


(2 Marks)

Q7 The table shows some information about the weights, in grams, of some potatoes.

Range	Lower Quartile	Median	Upper Quartile	Maximum
101	110	132	162	185

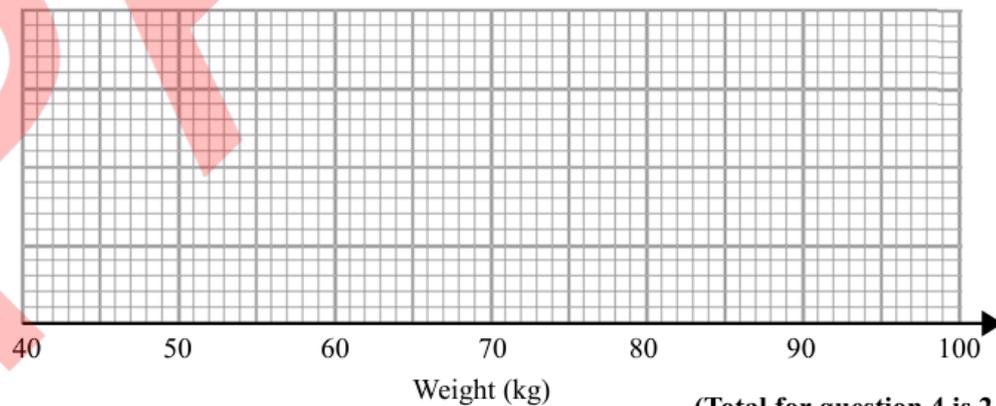
Draw a box plot for this information.



Q8 The weights of 11 pigs, in kg, are recorded below.

48 55 59 65 69 69 72 74 80 81 91

Draw a box plot for this information.

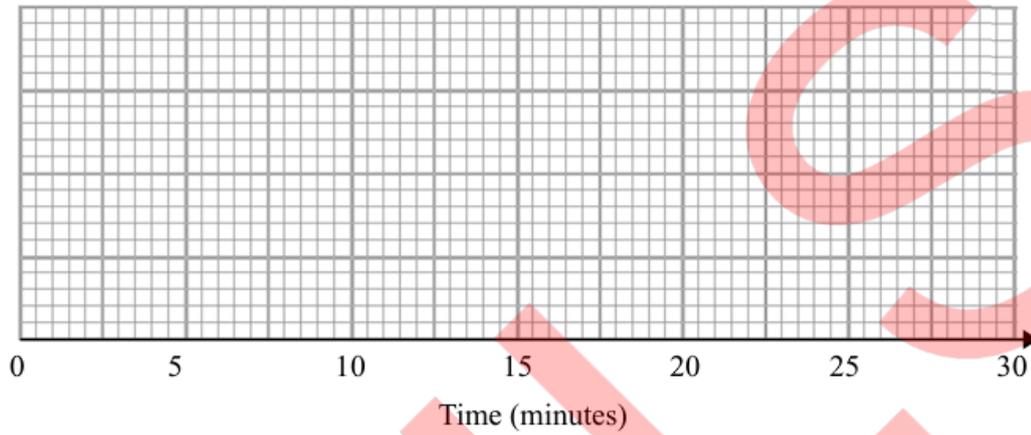


(Total for question 4 is 2 marks)

Q9 The table shows some information about times, in minutes, it took some boys to complete a puzzle.

Inter Quartile Range	Minimum	Median	Upper Quartile	Maximum
8	12	18	23	29

(a) Draw a box plot for this information.



(2)