

Name: _____

ASM Tuition
Academy Box Plots

Instructions:

Use **black** ink or ball-point pen.
Answer all questions.
Answer the questions in the spaces provided
- there may be more space than you need.
Diagrams are **NOT** accurately drawn, unless otherwise indicated.
You must **show all you're working out.**

Information:

The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

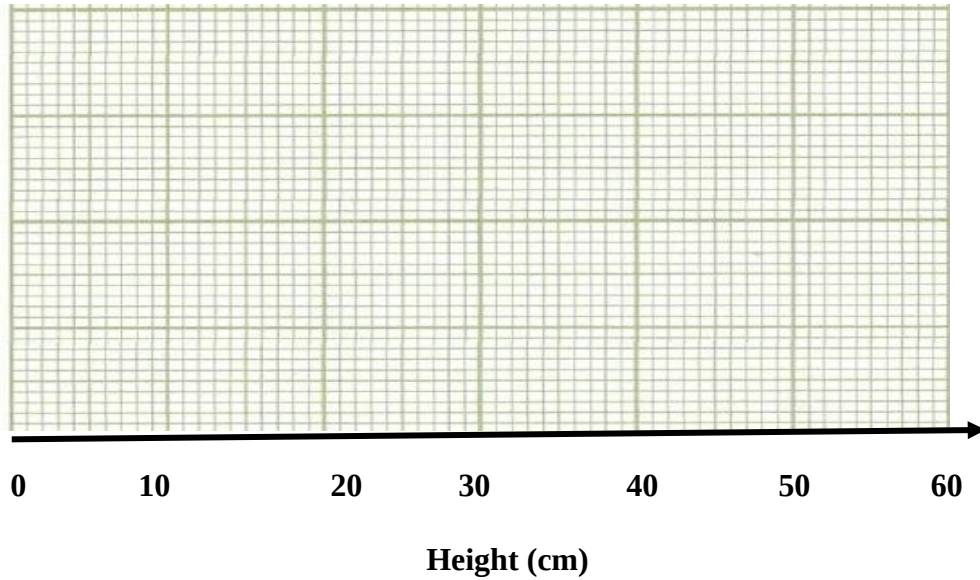
Advice:

Read each question carefully before you start to answer it.
Keep an eye on time.
Try to answer every question.
Check your answers if you have time at the end.

1. The table shows some information about the heights, in cm, of some persons.

Minimum	Lower Quartile	Median	Upper Quartile	Maximum
8	24	35	43	52

Sketch and label a box plot for this information.

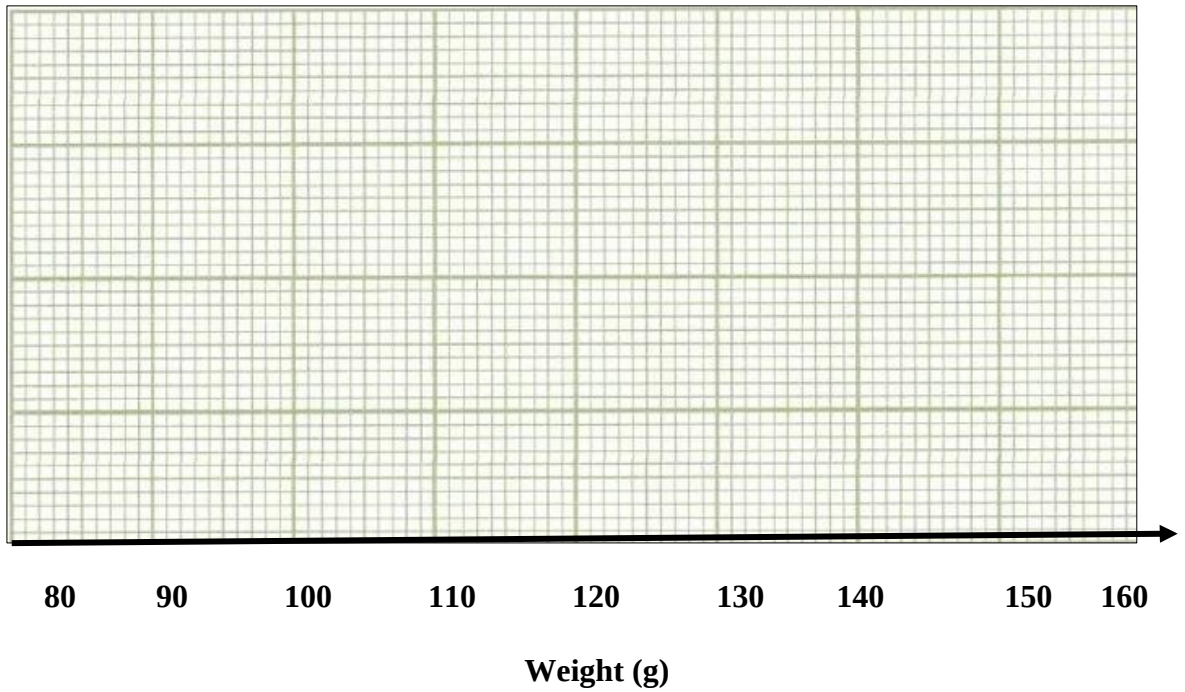


(Total for question 1 is 2 marks)

2. The table shows some information about the weights, in grams, of some tomatoes.

Range	Lower Quartile	Median	Upper Quartile	Maximum
75	94	115	138	157

Draw a box plot for this information.

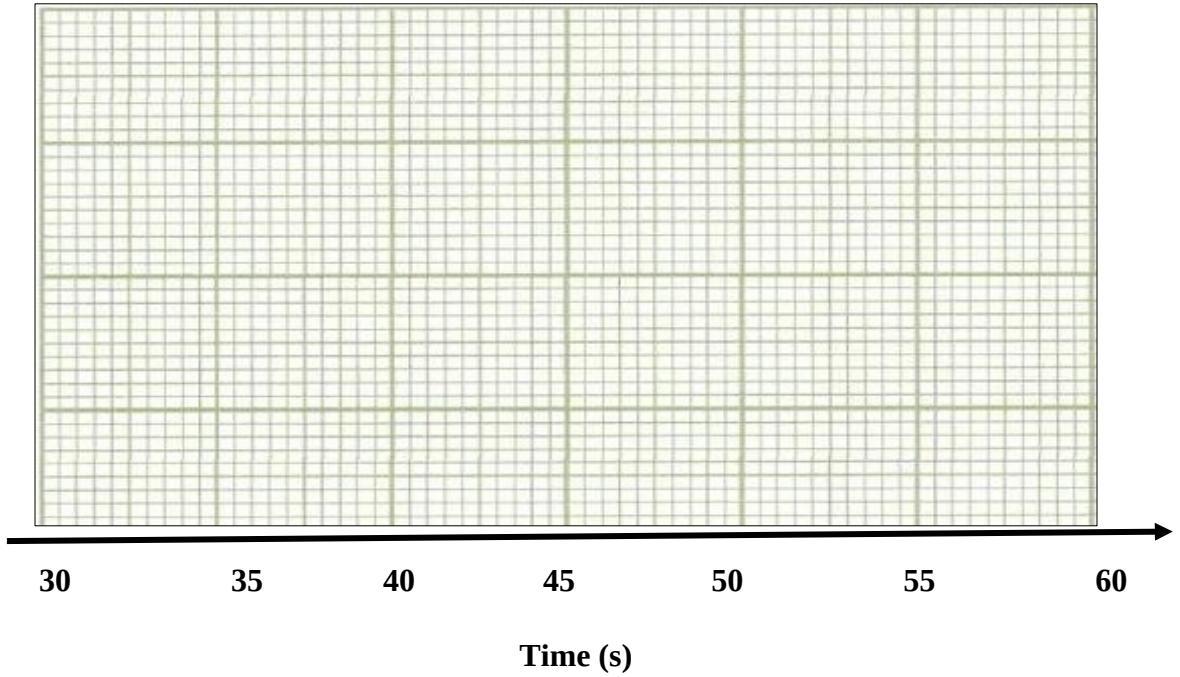


(Total for question 2 is 2 marks)

3. The time, in seconds, of 15 students running a race are recorded below.

32 34 35 38 38 39 40 40 41 41 44 46 46 49 52

Draw a box plot for this information.

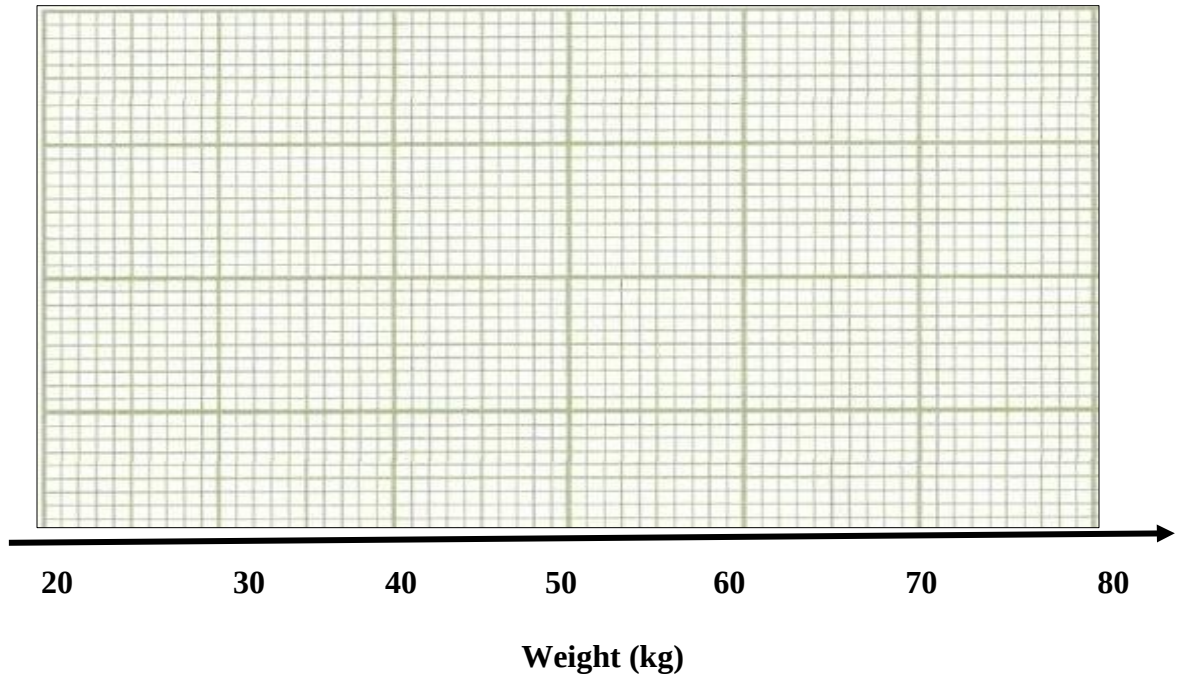


(Total for question 3 is 2 marks)

4. The weights of 11 cats, in kg, are recorded below.

28 35 39 45 49 49 52 54 60 61 71

Draw a box plot for this information.

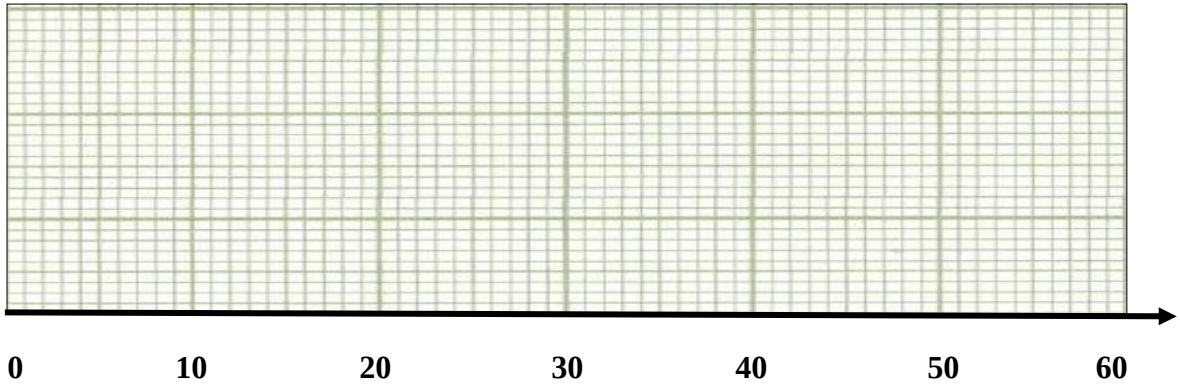


(Total for question 4 is 2 marks)

5. The table shows some information about the heights, in cm, of some potatoes plants in Zohaib's garden.

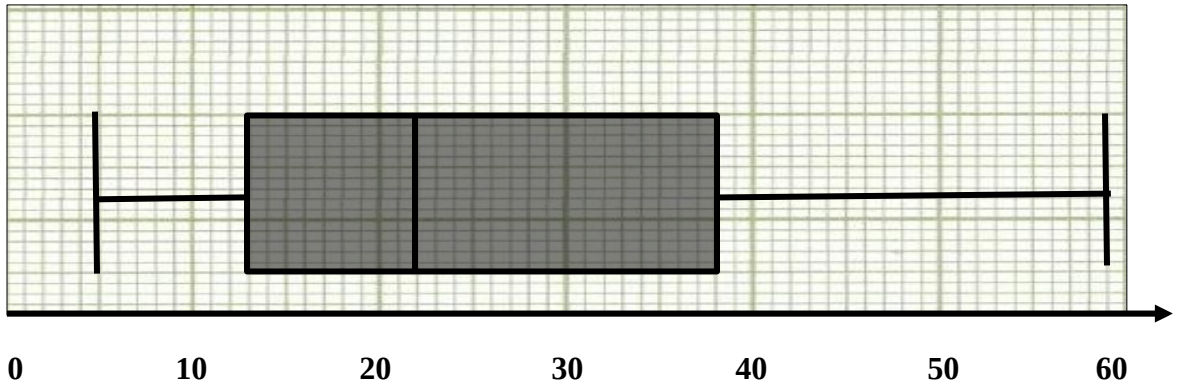
Minimum	Lower Quartile	Median	Upper Quartile	Maximum
13	30	38	47	58

- a) Draw a box plot for this information.



There are also potatoes plants in Anila's garden.

The box plant below shows the distribution of the heights of Anila's potatoes plants.



- b) Compare the distribution of the height of Zohaib's plants with the distribution of height of Anila's plants.

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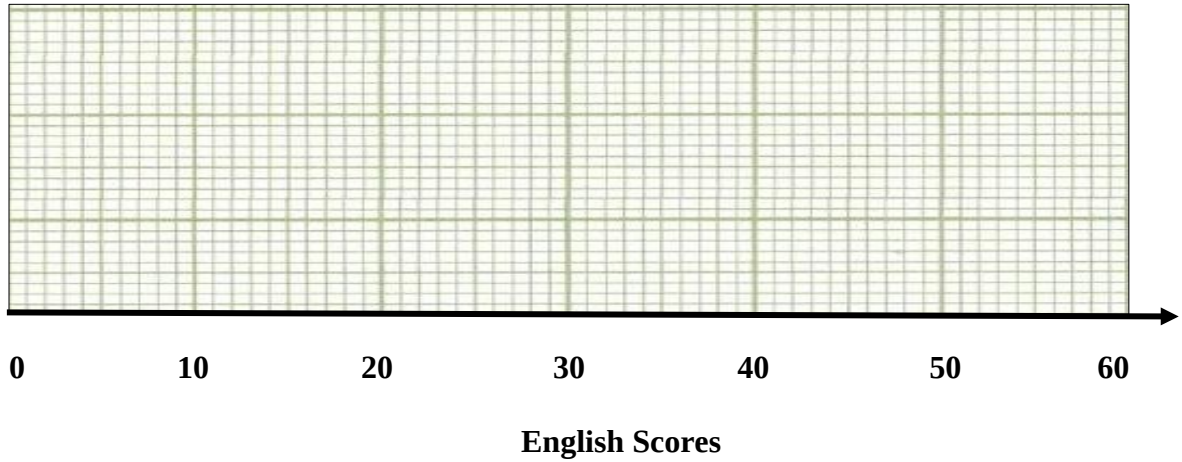
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(Total for question 5 is 4 marks)

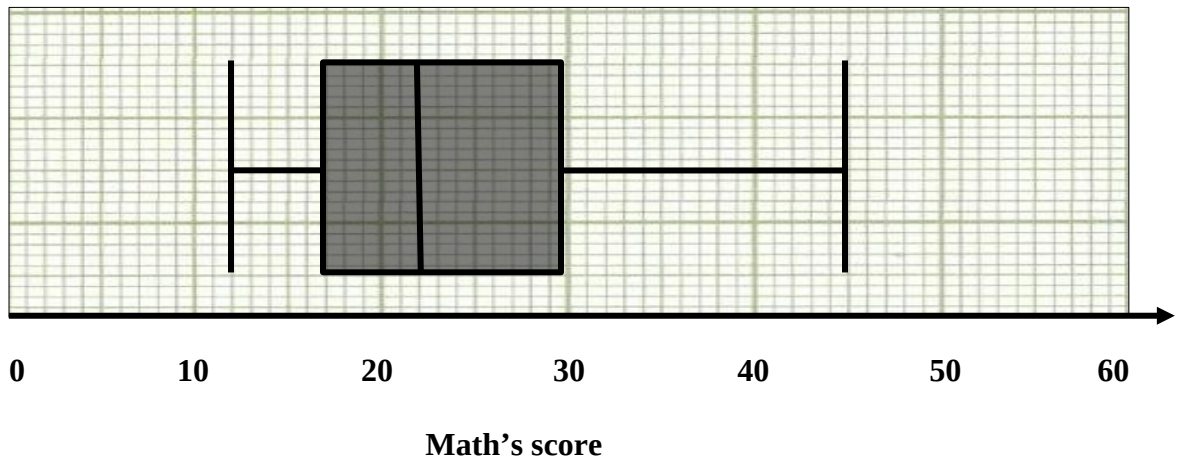
6. The table shows some information about the English scores of students in class B.

Minimum	Lower Quartile	Median	Upper Quartile	Maximum
7	13	20	32	45

a) Draw a box plot for this information.



The box plant below shows the distribution of the math's scores of students in class B.



b) Compare the distribution of the English and math's scores of students in class B.

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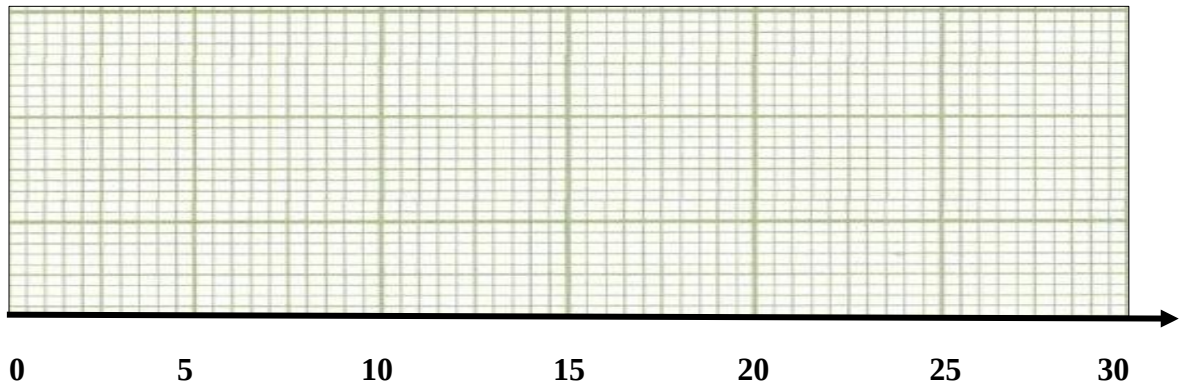
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(Total for question 6 is 4 marks)

7. 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
6	10	16	21	27

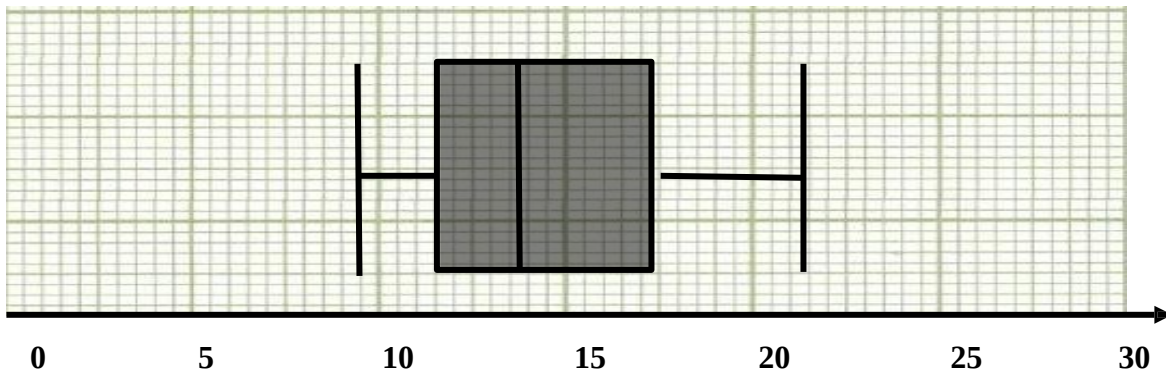
a) Draw a box plot for this information.



Time (minutes) for Boys

Some girls also completed the puzzle.

The box plant below shows the distribution of times the girl's took to complete the puzzle.



Time (minutes) for Girls

b) Compare the distribution of girl's times and boy's times.

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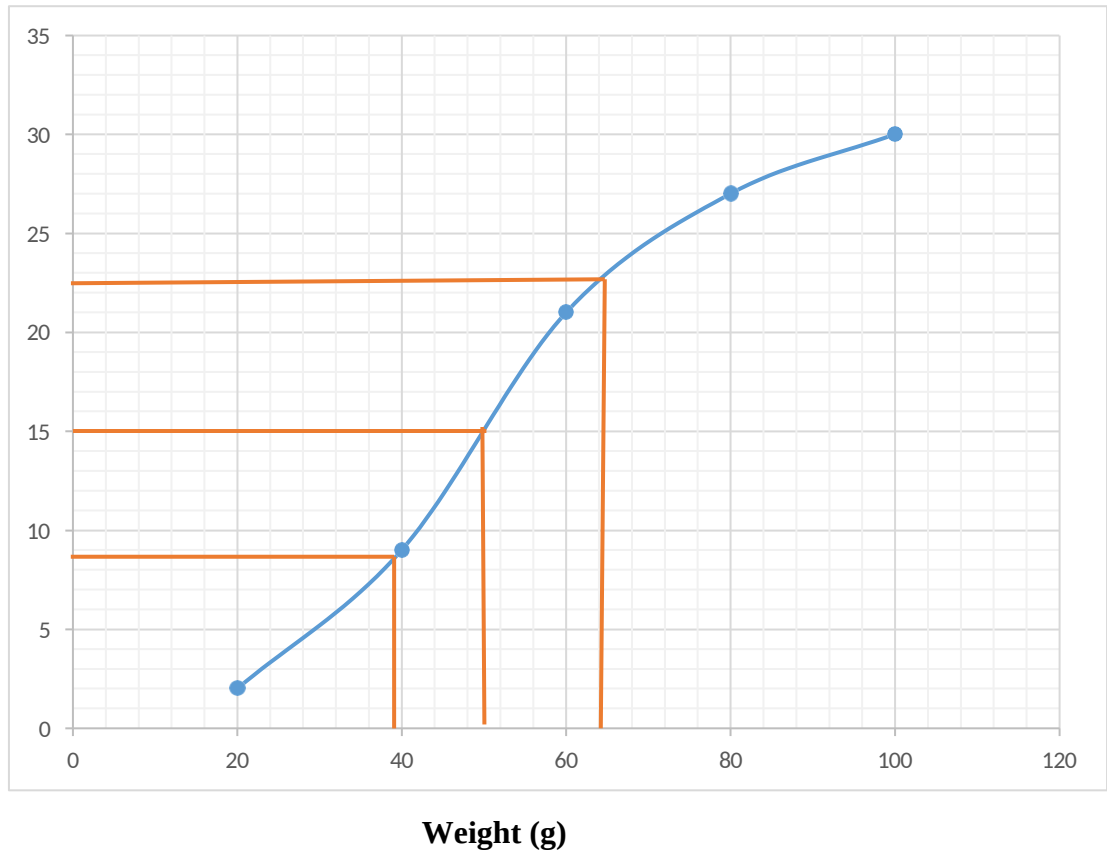
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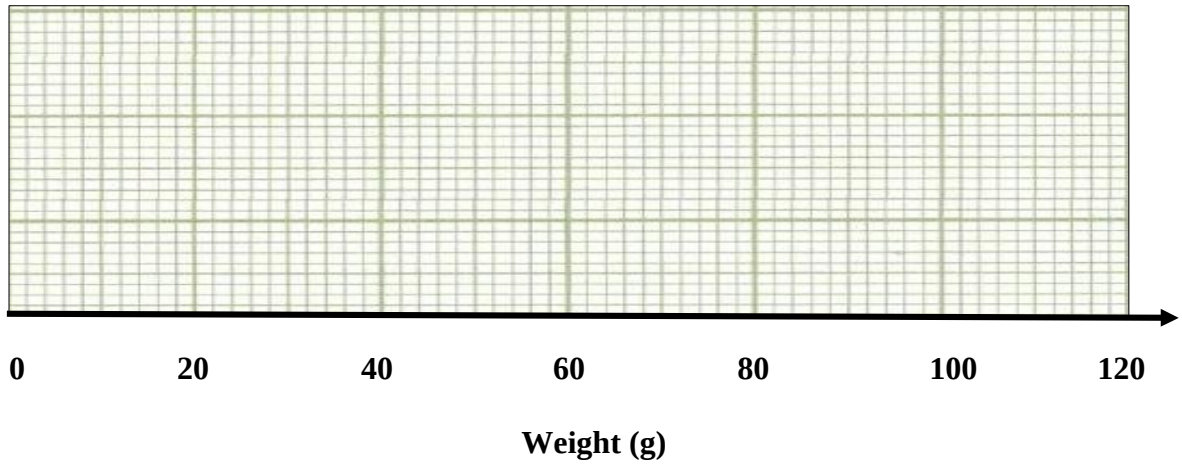
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(Total for question 7 is 4 marks)

8. The cumulative frequency graph shows the weight, in grams, of 30 apples.

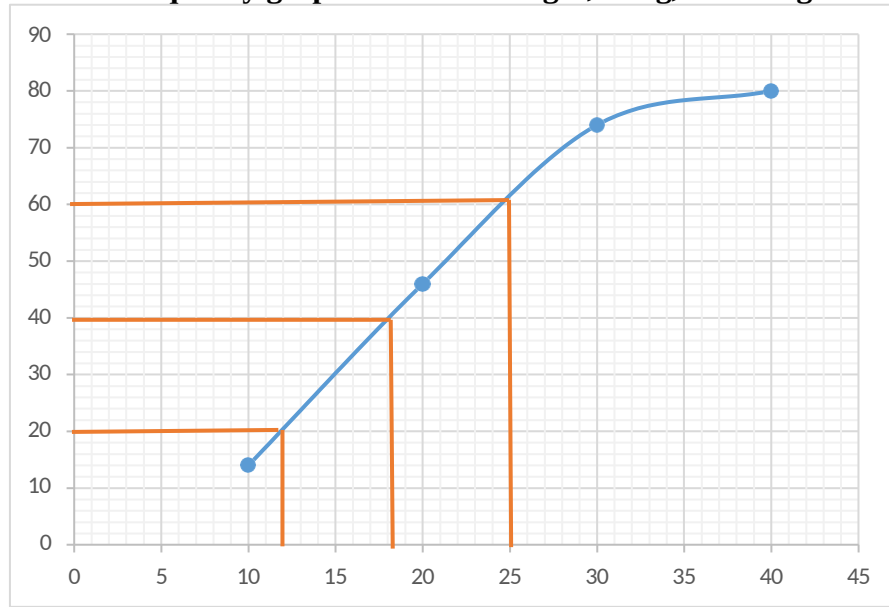


The 30 apples had a minimum weight of 22 grams and a maximum weight of 98 grams.
 Draw a box plot to show the distribution of the weight of the apples.



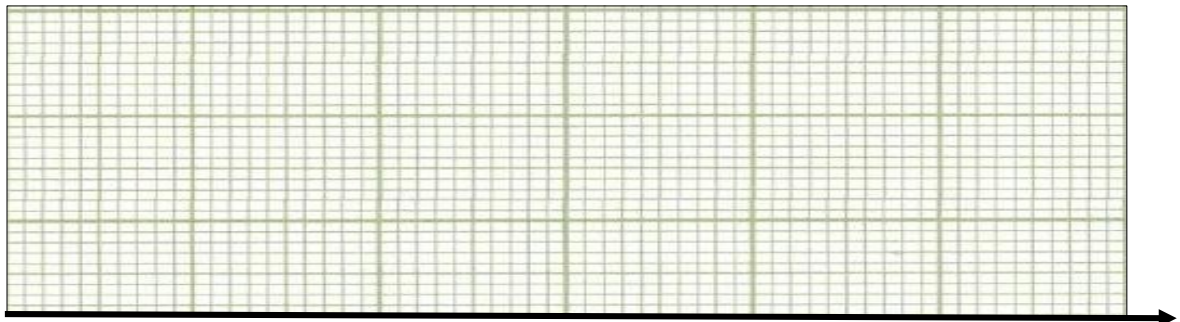
(Total for question 8 is 3 marks)

9. The cumulative frequency graph shows the weight, in kg, of 80 dogs.



Weight (kg)

The dog had a minimum weight of 11 kg and a maximum weight of 39 kg.
 Draw a box plot to show the distribution of the weights of dogs.



10 15 20 25 30 35 40

Weight (kg)

(Total for question 9 is 3 marks)