

**AQA, OCR, Edexcel**

**GCSE**

# GCSE Maths

## Box Plots Questions

Name:

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Total Marks: /12

## Box Plots

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

The lowest mark was 12

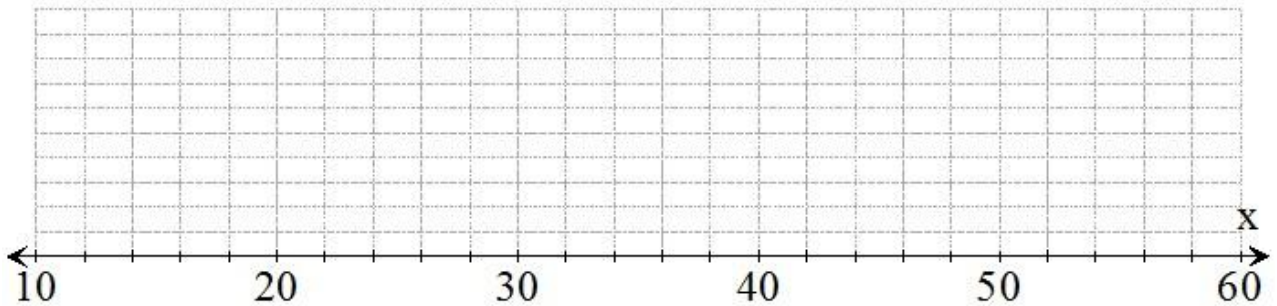
The highest mark was 55

The median was 32

The upper quartile was 41

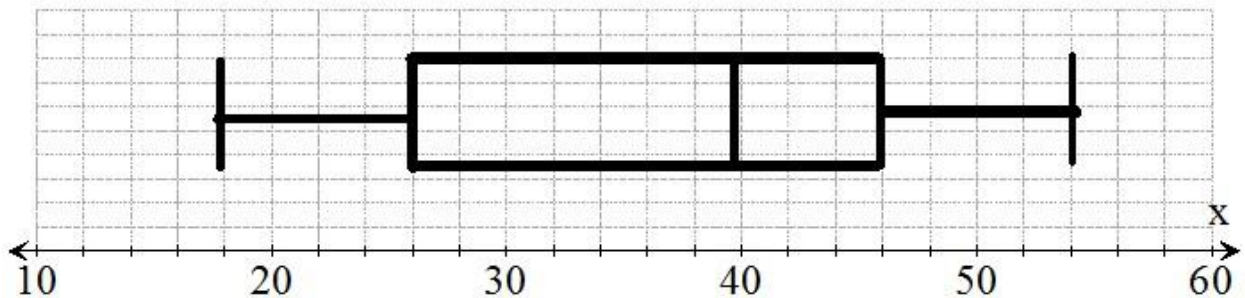
The interquartile range was 22

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



(2 Marks)

The box plot below shows the girls results in the same exams.



- b. Compare the distribution of results for the Boys and girls.

Visit <http://www.mathsmadeeasy.co.uk/> for more fantastic resources.

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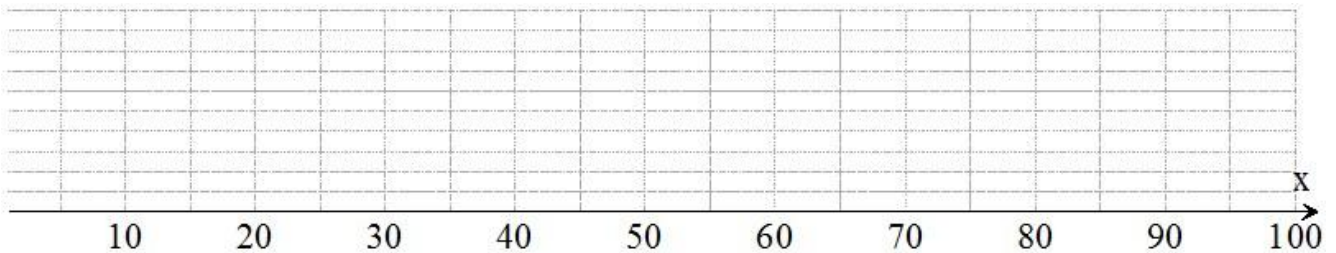
(2 Marks)

2. 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
<b>Least amount of time</b>	<b>20</b>
<b>Range</b>	<b>60</b>
<b>Median</b>	<b>45</b>
<b>Lower quartile</b>	<b>30</b>
<b>Upper quartile</b>	<b>57.5</b>

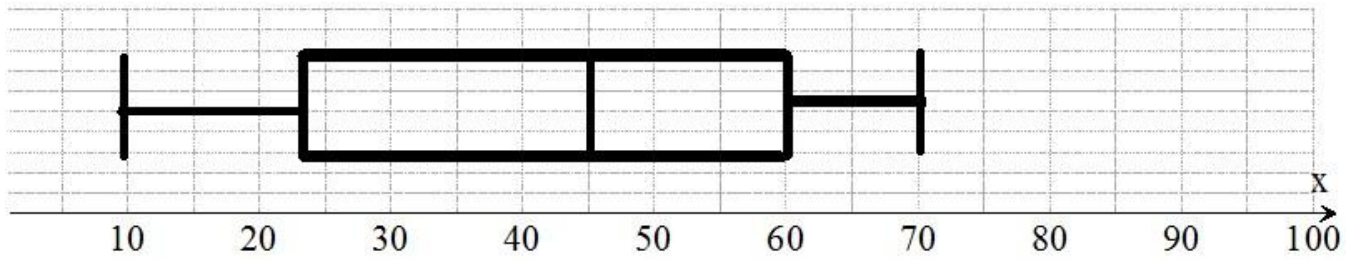
- a. On the grid below, draw a boxplot to represent this information



(2 Marks)

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The box plot below shows information about the amount of time spent in the garden by Sparrows.



b. Compare the distribution of time spent in the garden by Robins and sparrows.

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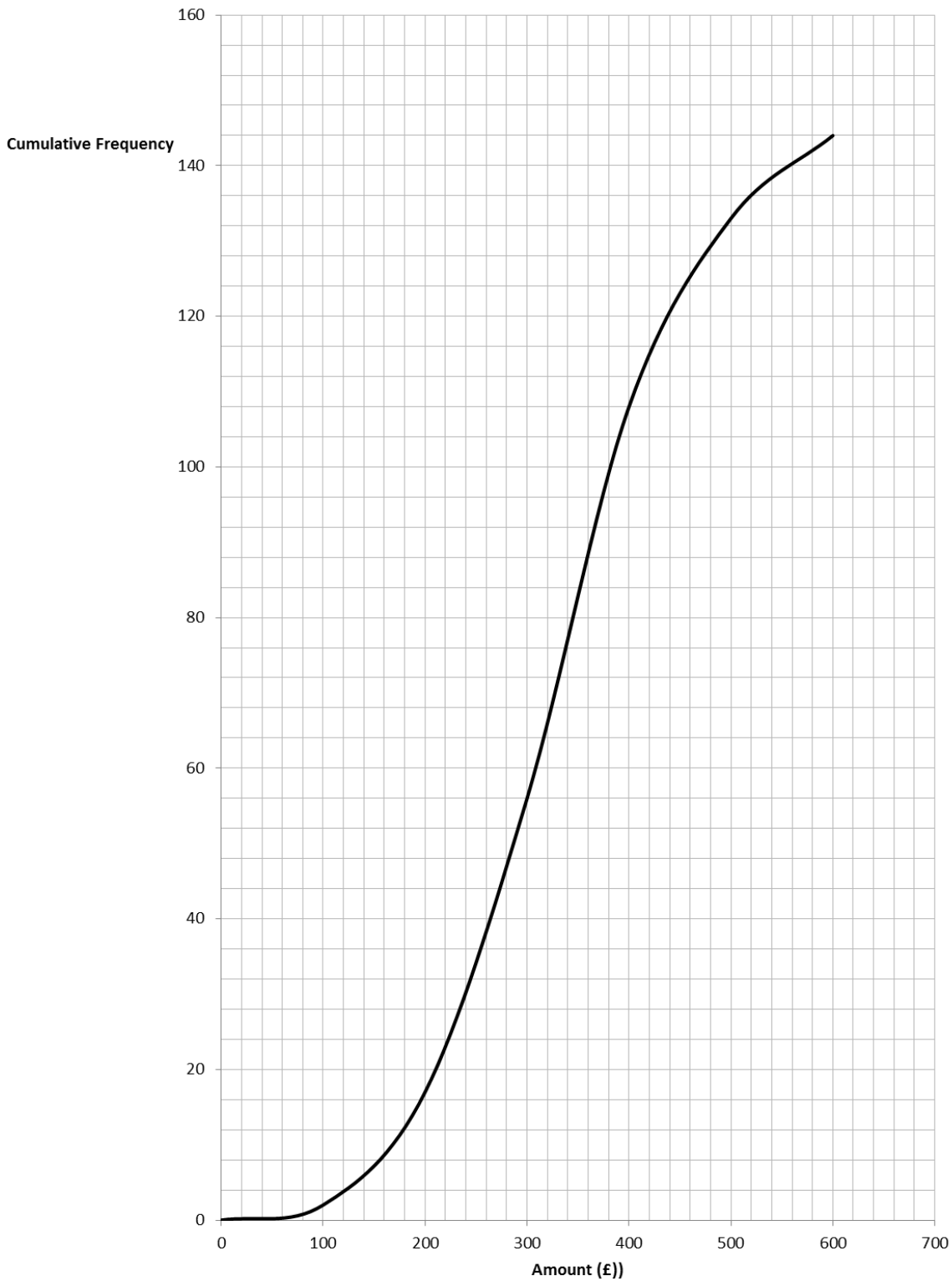
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(2 Marks)

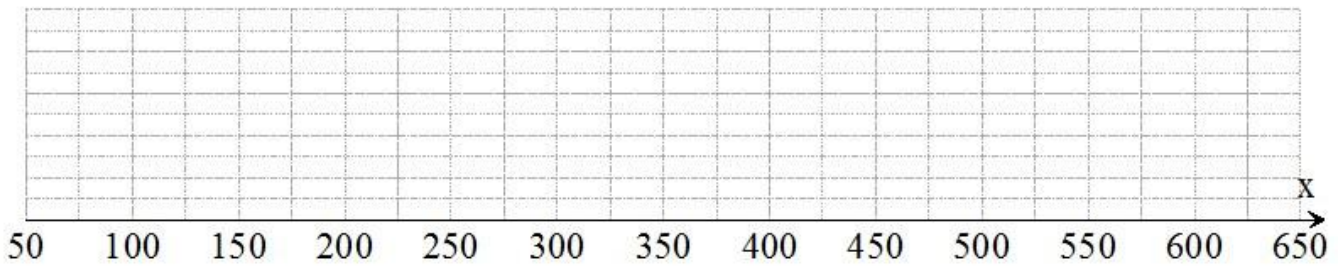
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3. The amount of money spent by 144 people over the 2014 Christmas period is summarised in a cumulative frequency diagram below. The lowest amount spent was £55 and the greatest amount spent was £600.



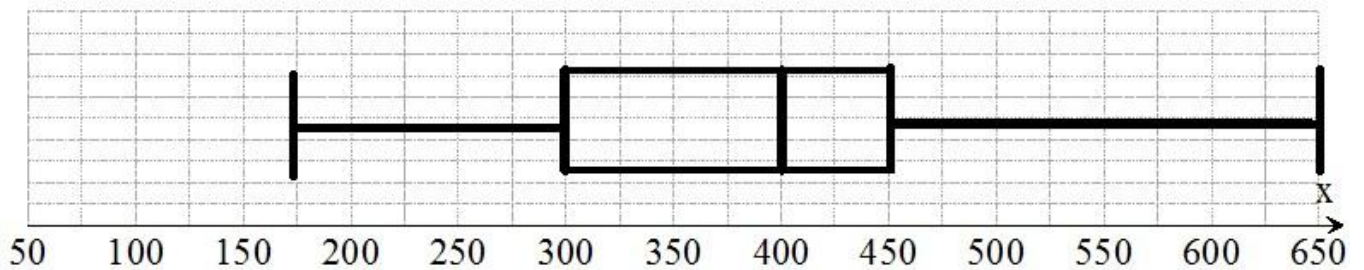
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- a. Use this information and the cumulative frequency to draw a box plot on the grid below.



(2 Marks)

The box plot below shows the amount spent by people over the Christmas period in 2015.



- b. Compare the distribution of amount spent in 2014 and 2015.

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(2 marks)