6.12 Box Plots: 10-minute Pack

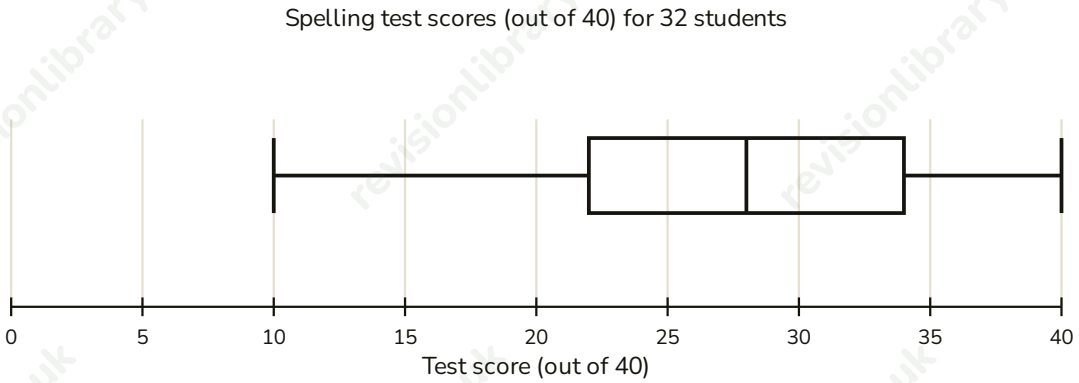
EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The box plot shows the scores, out of 40, of 32 students in a spelling test.



(a) Write down the median score. **(1)**

.....

(b) Work out the range of scores. **(1)**

.....

(Total for Question 1 is 2 marks)

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2 This question checks some key vocabulary used with box plots.

(a) Which of the following best describes the interquartile range (IQR) of a data set? **(1)**

- ☐ A) The highest value minus the lowest value
- ☐ B) The upper quartile minus the lower quartile
- ☐ C) The median minus the lower quartile
- ☐ D) The mean of all the data values

(b) State what is meant by the median of a data set. **(1)**

(Total for Question 2 is 2 marks)

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3 A hockey team's goal totals in each of their 9 matches this season were:

3, 5, 5, 7, 9, 10, 11, 13, 15

(a) Find the median number of goals. **(1)**

.....

(b) Find the range of the number of goals. **(1)**

.....

(c) Find the lower quartile. **(1)**

.....

(d) Find the upper quartile. **(1)**

.....

(e) Find the interquartile range. **(1)**

.....

(Total for Question 3 is 5 marks)

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Mark scheme · 6.12 Box Plots: 10-minute Pack

Question 1

(a) 28 cao **B1**

(a) Answer: 28

(b) 30 cao **B1**

(b) Answer: 30

Question 2

(a) B cao **B1**

(a) Answer: B

(b) oe: the middle value when the data are arranged in order of size **B1**

(b) Answer: The middle value when the data are arranged in ascending order.

Question 3

(a) 9 cao **B1**

(a) Answer: 9 goals

(b) 12 cao **B1**

(b) Answer: 12 goals

(c) 5 cao **B1**

(c) Answer: 5 goals

(d) 12 cao **B1**

(d) Answer: 12 goals

(e) ft: 7 cao **B1**

(e) Answer: 7 goals

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