WORKSHEET

Name: ..... Class: .....

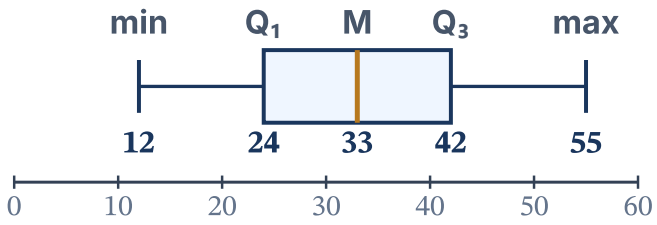
Date: .....

MARK ____ / 31

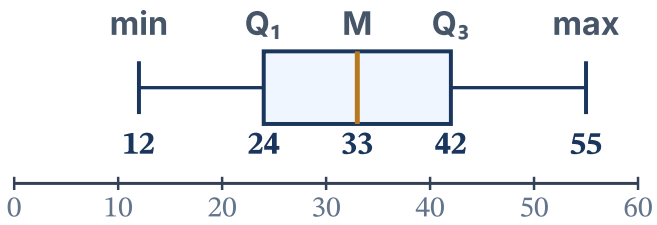
Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 The mean of 64, 71, 58, 67 and x is 66. Solve for x. (3)

2 For the box-and-whisker diagram below, write down the five-number summary. (3)



3 Calculate the interquartile range from the diagram below. (2)

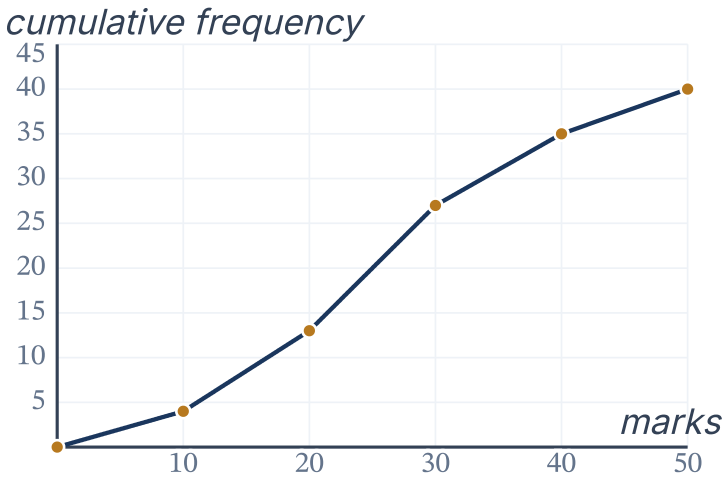


4 Calculate the mean of 12 ; 15 ; 18 ; 18 ; 21 ; 24 ; 27 ; 30 ; 33. (2)

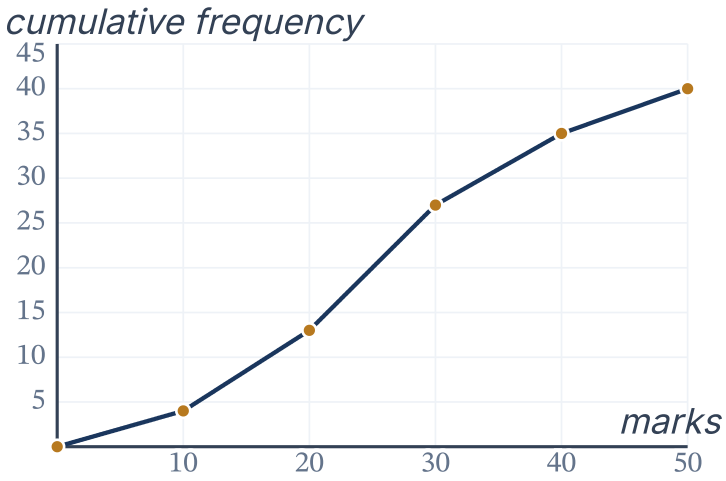
5 Calculate the standard deviation of 12 ; 15 ; 18 ; 18 ; 21 ; 24 ; 27 ; 30 ; 33. (3)

6 How many data values lie within one standard deviation of the mean for the data above? (2)

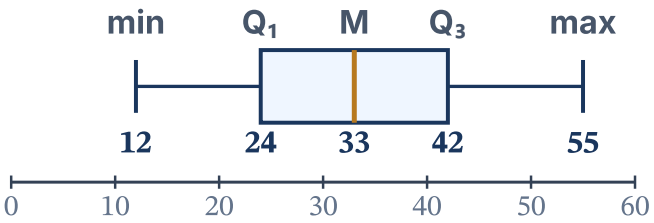
7 Use the ogive below to estimate the median mark. (2)



8 Use the ogive below to write down the total number of learners. (1)



9 Determine the outlier boundaries for the box plot below. (3)



10 Estimate the mean of: 0–10 ($f = 4$), 10–20 ($f = 9$), 20–30 ($f = 12$), 30–40 ($f = 5$). (4)

11 Why can the mean of grouped data only be ESTIMATED? (2)

12 At which point of each interval must a frequency polygon be plotted, and why? (2)

13 State ONE difference between a frequency polygon and an ogive. (2)

TOTAL: 31 marks

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