



Averages Exam Practice

Q1. Here is a list of numbers: 3 4 5 5 5 6 7 7 8 10

(i) Work out the range.

(1 mark)

(ii) Find the mode.

(1 mark)

(iii) Calculate the mean.

(2 marks)

Q2. Here is a list of numbers: 24 29 15 30 13 14 19

(i) Find the range

(1 mark)

(ii) Calculate the mean

(2 marks)

(iii) Sara claims that the median is 30. Explain why she is incorrect.

(1 mark)

Q3. Find the median of the following set of numbers:

3 7 2 8 11 100 9 13 18 4 1 19

(2 marks)

Q4. Here is a list of numbers: 0.4 $\frac{3}{4}$ 0.08 0.25 0.3 $\frac{1}{2}$ 0.14 $\frac{2}{3}$

(i) Find the range

(1 mark)

(ii) Calculate the mean

(2 marks)



Applied Mixed Practice Problems

Q5. Tim throws 9 darts at a dartboard. He works out that his mean score is 18. Given that he would like to have a mean of 20, work out how many points he needs to score with his next dart.

(2 marks)

Q6. Peter scores 128 runs in 4 cricket matches. John played 7 matches and his mean score was 35 runs. Work out the mean score of all the matches played by Peter and John combined.

(3 marks)

Q7. Here some number cards, one of which has been left blank:



If the median of all the numbers is to be 4, work out what number should go in the blank.

(2 marks)

Q8. Here are the salaries of the staff in a small company:

£13,000 £18,000 £24,000 £25,500
£26,000 £32,000 £45,000 £1,200,000

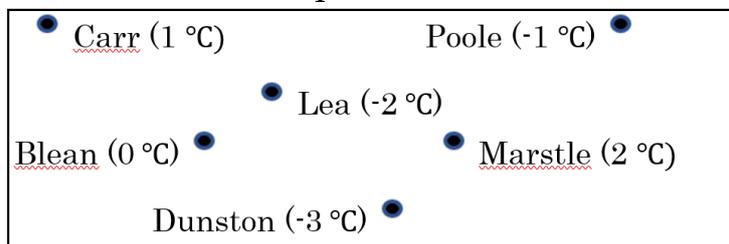
(i) Calculate the mean and median for this data.

(2 marks)

(ii) Which of your answers above represents the set of data above the best? Justify your answer.

(1 mark)

Q9. Here are some temperatures on a local weather map:



(i) Calculate the mean temperature for this local region.

(2 marks)

(ii) The temperature for New Abbey, which is also in this region, was reported as 3 °C in one source, and -2 °C by another. Which do you think is most likely to be correct? Justify your answer.

(1 mark)