

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.

Answer: _____
(1 mark)

(ii) Find the mode.

Answer: _____
(1 mark)

(iii) Calculate the mean.

Answer: _____
(2 marks)



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

(i) Find the range

Answer: _____
(1 mark)

(ii) Calculate the mean

Answer: _____
(2 marks)

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

Answer: _____
(1 mark)



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

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

Answer: _____
(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

Answer: _____
(1 mark)

(ii) Calculate the mean

Answer: _____
(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.

Answer: _____
(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.

Answer: _____
(3 marks)



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

3	7		3	7	2
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If the median of all the numbers is to be 4, work out what number should go in the blank.

Answer: _____
(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.

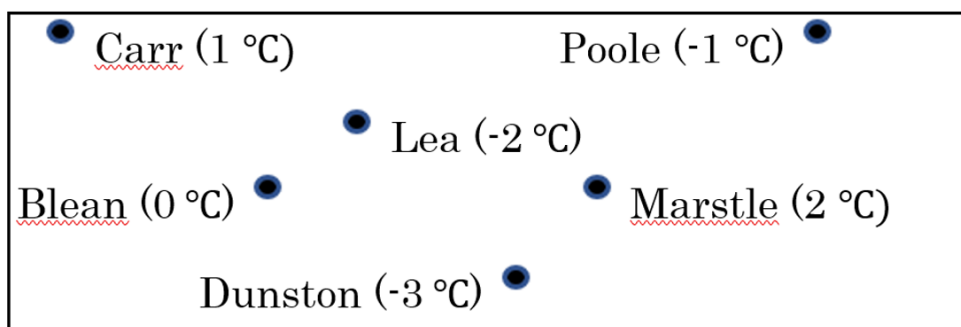
Answer: _____
(2 marks)

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

Answer: _____
(1 mark)



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



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

Answer: _____
(2 marks)

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

Answer: _____
(1 mark)