

Handling data Averages 2

1. The mean of 3 numbers is 36. Two of the numbers are 20 and 50. What is the third number?

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2. The mean weight of 10 people in a lift is 70 kg. The maximum weight for the lift is 1000kg. Roughly how many more people can get into the lift?

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3. The salaries of 5 employees in a business are shown in this table.

Calculate the mode, mean and median salary.

Employee	A	B	C	D	E
Salary (£)	17 800	22 500	22 500	32 400	85 000

Mode Mean Median

Which does not give a fair average? Explain why in a brief sentence.

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5. The mean age of 6 teachers is 44.2 years. The mean age of 5 of these teachers is 46 years. How old is the 6th teacher?

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6. Write down five numbers so that the mean is 6, the median is 5 and the mode is 4.

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7. The mean of 3 numbers is 18. The ratio of the numbers is 1 : 2 : 3. Find the three numbers?

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8. The median of five consecutive numbers is N .

(a) Find the mean of the five numbers.

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(b) 4 is added to each of these five numbers.

(i) Find the new median

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(ii) Find the new mean

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9. The table shows the number of books borrowed from a school library by 80 students in one month.

No. of books	1	2	3	4	5
Frequency	5	12	33	20	10

Find the mean number of books borrowed per student.

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10. The number of bags used by supermarket customers was as follows:

Number of bags	1	2	3
Frequency	8	10	x

If the mean number of bags was 2.5, find the value of x .

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