



MATHS

BOOKS - V PUBLICATION

STATISTICS

Question Bank

1. The distance covered by an athlete in long jump-practice are

'6.10,6.20,6.18,6.20,6.25,6.21,6.15,6.10'

in metres. Find the mean and median. Why is it that there is not much difference between these?



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2. The table below gives the rainfall during one week of September 2015 in various districts of Kerala. Calculate the mean and median rainfall in Kerala during this week. Why is the

mean less than median?

District	Rainfall (mm)
Kasaragod	66.7
Kannur	56.9
Kozhikode	33.5
Wayanad	20.5
Malappuram	13.5
Palakkad	56.9
Thrissur	53.4
Ernakulam	70.6
Kottayam	50.3
Idukki	30.5
Pathanamthitta	56.4
Alapuzha	45.5
Kollam	56.3
Thiruvananthapuram	89.0



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3. Prove that for a set of numbers in arithmetic sequence, the mean and median are equal.



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4. 35 households in a neighbourhood are sorted according to their monthly income in

the table below. Calculate the median income.

Monthly income (Rs)	Number of households
4000	3
5000	7
6000	8
7000	5
8000	5
9000	4
10000	3



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5. The table shows the workers in a factory sorted according to their daily wages.

'(##VPU_TTT_MAT_X_P02_C11_E02_002_Q01##)'

Calculate the-median daily wage.



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6. The table below gives the number of babies born in a hospital during a week, sorted according to their birth weight. Calculate the

median birth-weight.

Weight (kg)	Number of babies
2.500	4
2.600	6
2.750	8
2.800	10
3.000	12
3.150	10
3-250	8
3.300	7
3.500	5



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7. The table below shows the employees in an office, sorted according to their age:

'(##VPU_TTT_MAT_X_P02_C11_E03_001_Q01##)'



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8. The table below shows children of a class sorted according to their marks in an exam:

'(##VPU_TTT_MAT_X_P02_C11_E03_002_Q01##)'

Compute the median mark.



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9. The table shows some households sorted according to their usage of electricity.

Usage of electricity (units)	Number of households
80 – 90	3
90 – 100	6
100 – 110	7
110 – 120	10
120 – 130	9
130 – 140	4

Calculate the median usage of electricity.



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10. The table below shows children in a class sorted according to their marks in a maths exam:

'(##VPU_TTT_MAT_X_P02_C11_E03_004_Q01##)'

Calculate the median mark of the class.



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11. The table below shows the classification of 100 families in a locality, according to the amount paid against their electricity bill.

'(##VPU_TTT_MAT_X_P02_C11_E04_002_Q01##)'

Find the median amount paid.



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12. The table below classifies 60 students in a class according to their heights.

'(##VPU_TTT_MAT_X_P02_C11_E04_003_Q01##)'

Calculate the median height.



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13. The scores obtained by 50 students in an examination is tabulated as shown below:

'(##VPU_TTT_MAT_X_P02_C11_E04_004_Q01##)'

Find the median score.



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14. The table below shows the students of a class sorted, according to their heights.

'(##VPU_TTT_MAT_X_P02_C11_E04_005_Q01##)'

a) If the students are arranged in increasing order of their heights, the height of the student at what position is taken as the median?

b) According to table, between which measures comes the height of this student?

c) Find the median height.





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15. The table below shows workers of a factory sorted according to their wages.

'(##VPU_TTT_MAT_X_P02_C11_E04_006_Q01##)'

Compute the median daily wage.



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16. Workers of a factory are sorted according to their daily wages.

'(##VPU_TTT_MAT_X_P02_C11_E04_007_Q01##)'

- a) How many workers are there in the factory?
- b) How many workers have their daily wages greater than or equal to, 800 rupees.
- c) Find median daily wage.



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17. Some households in a locality are sorted according to their electricity usage in the table below.

'(##VPU_TTT_MAT_X_P02_C11_E04_008_Q01##)'

(a) If the household using the least unit of

electricity is numbered as one and second least as two and so on, what is assumed to 'be usage of electricity of the '21st ' household.

(b) Calculate the median usage of electricity.



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18. The daily wages of 49 workers of a village are given below.

'(##VPU_TTT_MAT_X_P02_C11_E04_009_Q01##)'

a) The daily wage of the worker of what

position is taken as the median.

b) Find the median of daily wages.



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19. The table below shows 60 children in a class sorted according to their heights.

'(##VPU_TTT_MAT_X_P02_C11_E04_010_Q01##)'

a) If the children are arranged in increasing order of heights, the height of the student at what position is taken as the median?

b) What is assumed to be height of the

student at the '26th' position?

c) Find the median height.



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20. The table below shows the number of children in a class, sorted according to, their heights.

'(##VPU_TTT_MAT_X_P02_C11_E05_001_Q01##)'

If the students are directed to stand in a line according to their height starting from the smallest, then

- a) The height of the child at what position is taken as the median?
- b) What is the assumed height of the child in the 17th position?
- c) Find the median height.



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21. The table below shows the students of a class sorted according to their scores in a test.

'(##VPU_TTT_MAT_X_P02_C11_E06_001_Q01##)'

a) If the students are arranged in the

increasing order of their scores, the score of the student at what position is taken as the median?

b) What may be assumed as the score of the '15th' student in the arrangement?

c) Find the median score.



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22. The table below shows the members in "Sree Sakthi Kudumbasree" scored according to their ages.

'(##VPU_TTT_MAT_X_P02_C11_E07_001_Q01##)'

á) If the members are arranged in increasing order of ages, the age of the member at what position is taken as the median?

b) What is assumed to be age of the member at the '13th ' position'?

c) Find the median of the ages



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23. Some households in a locality are sorted according to their electricity usage in the

table below.

'(##VPU_TTT_MAT_X_P02_C11_E08_001_Q01##)'

- a) If the households using the least unit of electricity is numbered as one and the second least as two and so on, what is assumed to be usage of electricity of the '21st' household.
- b) Calculate the median usage of electricity.



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24. 11 households in a neighbourhood are sorted according to their monthly income are

given below.

'12000,14500,18000,13500,17800,

13800,19300,20000,11900,12800,14500'

How many families have monthly income greater than the median income?



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25. The table below shows the heights of students in a class.

'(##VPU_TTT_MAT_X_P02_C11_E09_002_Q01##)'

Find the median height.



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26. The marks got in English of students in 10 A are arranged as given below.

'(##VPU_TTT_MAT_X_P02_C11_E09_003_Q01##)'

Find the median mark.



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27. The table below shows the classification of 100 families in a locality, according to the amount paid against their electricity bill.

'(##VPU_TTT_MAT_X_P02_C11_E09_004_Q01##)'

Find the median amount paid.



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28. The table below shows daily wages of 42 workers in a company.

'(##VPU_TTT_MAT_X_P02_C11_E09_005_Q01##)'

Find median.



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