



# MATHS

**BOOKS - JEEVITH PUBLICATIONS**

**MATHS (KANNADA ENGLISH)**

**STATISTICS AND PROBABILITY**

**One Marks Questions With Answers**

**1. Find the mean for the following data**

**6, 7, 10, 12, 13, 4, 8, 12**



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2. Find the mean for the following data :

$x$	2	5	6	8	10	12
$f$	2	8	10	7	8	5



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3. Find the mean for the following data

Marks obtained	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No of students	2	3	8	14	8	3	2



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4. Find the median for the following data.

25, 20, 15, 35, 18



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5. Find the median for the following data 8, 20,

25, 45, 15, 60



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6. Find the median for the following data.

$x:$	1	2	3	4	5	6	7	8	9
$f:$	8	10	11	16	20	25	15	9	6



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7. Find the median for the following data.

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No of students	4	9	19	20	18	7	3



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Two Marks Questions With Answers

1. Find the mean deviation about the mean for the following data :

2, 4, 5, 7, 8, 10, 12, 17, 19, 26



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2. Find the mean deviation about the median for the following data

3, 9, 5, 3, 12, 10, 18, 4, 7, 19, 21.



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3. Find the mean deviation about the mean

$x_i$	10	30	50	70	90
$f_i$	4	24	28	16	8



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4. Find the mean deviation about the mean.

$x_i$	5	10	15	20	25
$f_i$	7	4	6	3	5



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5. Find the mean deviation about the mean

$x_i$	10	30	50	70	90
$f_i$	4	24	28	16	8



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6. Find the mean deviation about the mean.

$x_i$	5	10	15	20	25
$f_i$	7	4	6	3	5



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7. Compute the mean deviation about the mean for the following data.

C.I.	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	2	10	20	15	10	3



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8. Compute the mean deviation about the mean for the following data.

C.I.	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	2	10	20	15	10	3



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## 9. Find the M.D. about mean

Height in cms	95-105	105-115	115-125	125-135	135-145	145-155
Number of boy	9	13	26	30	12	10



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10. Compute the mean deviation about the mean for the following data.

C.I.	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	2	10	20	15	10	3



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**11.** Compute the mean deviation about the mean for the following data.

C.I.	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	2	10	20	15	10	3



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**12.** Find the mean for the following data :

$x$	2	5	6	8	10	12
$f$	2	8	10	7	8	5



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**13.** Find variance and standard deviation for the following data

Class	78-80	80-82	82-84	84-86	86-88	88-90
frequencies	3	15	26	23	9	4



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**14.** Find the mean and standard deviation using short - cut method.

$x_i$	60	61	62	63	64	65	66	67	68
$f_i$	2	1	12	29	25	12	10	4	5



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15. Find variance and standard deviation for the following data

Class	78-80	80-82	82-84	84-86	86-88	88-90
frequencies	3	15	26	23	9	4



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16. Find the mean and variance for the following frequency distributions

Classes	0-30	30-60	60-90	90-120	120-150	150-180	180-210
Frequencies	2	3	5	10	3	5	2



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17. Find variance and standard deviation for the following data

Class	78-80	80-82	82-84	84-86	86-88	88-90
frequencies	3	15	26	23	9	4



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18. The coefficient of variation for a distribution is 60 and standard deviation is 21. Find the arithmetic mean.



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**19.** An analysis of monthly wages paid to the workers of two firms A and B belonging to the same industry gives the following results.

	A	B
Number of workers	500	600
Average monthly wage	186	175
Variance of distribution of wages	81	100

In which firm, A or B, is there greater variability in individuals wages ?



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**20.** From the data given below state which group is more variable, A or B ?

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Group A	9	17	32	33	40	10	9
Group B	10	20	30	25	43	15	7



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21. From the prices of shares X and Y below,

Find out which is more stable in value :

X	35	54	52	53	56	58	52	50	51	49
Y	108	107	105	105	106	107	104	103	104	101



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**22.** The mean and variance of 7 observations are 8 and 16 respectively. If five of the observation are 2, 4, 10, 12, 14. Find the remaining two observation.



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**23.** The mean and variance of 7 observations are 8 and 16 respectively. If five of the observation are 2, 4, 10, 12, 14. Find the remaining two observation.







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**24.** The mean and standard deviation of six observations are 8 and 4 respectively. If each observation is multiplied by 3, Find the new mean and new standard deviation of the resulting observations.



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**25.** The mean and standard deviation of marks obtained by 50 students of a class in three

subjects. Mathematics, Physics and Chemistry are given below.

Subject	Mathematics	Physics	Chemistry
Mean	42	32	40.9
Standard deviation	12	15	20

Which of the three subject shows the highest variability in marks and which shows the lowest ?



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