



MATHS

BOOKS - MBD MATHS (ODIA ENGLISH)

STATISTICS

Question Bank

1. If the values observed are $1, 2, \dots, n$ each with frequency 1, find the mean value



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2. From the table below, find the mean value and the variance.

Values :	1	2	3	n
Frequency	1	2	3	n



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3. From the tables below, find the mean and the variance. Values: 1 3 5(2n-1) Frequency:

1 1 1..... 1



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4. From the tables below, calculate the mean and the variance.

Values :	2	4	6	2n
Frequency	1	1	1		1



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5. From the following tables calculate the mean, mean deviation from the mean and

variance.

Values :	0	1	2....	r	...n
Frequency:	${}^n C_0$	${}^n C_1$	${}^n C_2$	${}^n C_r$${}^n C_n$



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6. From the following tables calculate the mean, mean deviation from the mean and variance.

Values :	0	1	2....	r	...n
Frequency:	${}^n C_0$	${}^n C_1$	${}^n C_2$	${}^n C_r$${}^n C_n$



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7. The coefficient of variation is defined as σ / \bar{x} that is the standard deviation divided by the mean value. Find the coefficient of variation c.v. for each of the following set of observations.

2,3,4,2,5,7,8,9



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8. The coefficient of variation is defined as σ / \bar{x} that is the standard deviation divided by the mean value. Find the coefficient of

variation c.v. for each of the following set of observations.

5,7,9,10,7,5,8,9,3



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9. The coefficient of variation is defined as σ / \bar{x} that is the standard deviation divided by the mean value. Find the coefficient of variation c.v. for each of the following set of observations.

3,3,3,4,4,4,5,5,5



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10. Suppose the values x_1, x_2, \dots, x_n having frequency f_1, f_2, \dots, f_n respectively have mean value \bar{x} and variation σ^2 . Let a be a fixed real number. Show that the values $x_1 + a, x_2 + a, \dots, x_n + a$ with frequency f_1, f_2, \dots, f_n respectively will have mean value $\bar{x} + a$ and variance σ



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11. From the tables below, find the mean and the variance.

Values :	1	2	5	$(2n - 1)$
Frequency	1	1	1	1



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12. Let x_1, x_2, \dots, x_n be a set of observations with mean value 0 and variance σ_x^2 and y_1, y_2, \dots, y_m be another set of observations with mean value 0 and variance... Find the mean value and variance of the set of

observations $x_1, x_2, \dots, x_n, y_1, y_2, \dots, y_m$

combined.



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13. Find which group of the following is more dispersed.

is more dispersed.

Range	10-20	20-30	30-40	40-50	50-60
(Group A) Frequency	5	1	3	2	1
(Group B) Frequency	1	3	2	3	1



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