

**INDIAN SCHOOL MUSCAT**  
**DEPARTMENT OF MATHEMATICS**

**CLASS-11**

**WORKSHEET ON STATISTICS**

- 1) Find mean deviation about mean:- (3.25)

20, 18, 12, 25, 15, 21, 19, 14

- 2) Find mean deviation about median:- (20)

120,100,130,150,180,110,140

- 3) Find mean deviation about mean:- (0.75)

$x$	10	11	12	13	14
$f$	3	12	18	12	3

- 4) Find mean deviation about median:- (20.83)

$x$	74	89	42	54	91	94	35
$f$	20	12	2	4	5	3	4

- 5) Find mean deviation about mean:- (Ans:10)

class	10-20	20-30	30-40	40-50	50-60	60-70	70-80
frequency	2	3	8	14	8	3	2

- 6) Find mean deviation about median:- (Ans:10.16)

class	0-10	10-20	20-30	30-40	40-50	50-60
frequency	6	7	15	16	4	2

- 7) Find mean and variance of first  $n$  natural numbers:- (Ans.  $\frac{n+1}{2}, \frac{n^2+1}{12}$ )

- 8) Calculate mean, variance and standard deviation of the following:- (Ans.62,201,14.18)

class	30-40	40-50	50-60	60-70	70-80	80-90	90-100
frequency	3	7	12	15	8	3	2

- 9) Calculate mean, variance and standard deviation of the following:-

(Ans.49.67,135.44,11.64)

class	25-35	35-45	45-55	55-65	65-75
frequency	64	132	153	140	51

- 10) Calculate mean, variance and standard deviation of the following:-

(Ans.27,132,11.49)

class	0-10	10-20	20-30	30-40	40-50
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frequency	5	8	15	16	6
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11) Find the coefficient of variation:- (Ans:44.58)

class	0-30	30-60	60-90	90-120	120-150	150-180	180-210
frequency	2	3	5	10	3	5	2

12) Coefficients of variation of two distributions are 60 and 70, and their standard deviations are 21 and 16, respectively. What are their arithmetic means? ( 35 , 22.85)

13) The variance of a series of numbers 2, 3, 11 and  $x$  is  $12\frac{1}{4}$ . Find the value of  $x$ .

(6 or 14/3)

14) The mean of 5 observations is 4.4 and their variance is 8.24. If three of the observations are 1,2 and 6, find the other two observations. ( 4 , 9 )

15) While calculating the mean and variance of 10 readings, a student wrongly used reading 52 for the correct reading 25. He obtained the mean and variance as 45 and 16 respectively. Find the correct mean and variance. (42.3 , 43.81)