

Class : XIth
Date :

Subject : MATHS
DPP No. : 3

Date:	DPF No. : 3
To	pic:- statistics
1. The quartile deviation for x 2 3 4 5 6 f 3 4 8 4 1	the following data is
a) 0 b) $\frac{1}{4}$	c) $\frac{1}{2}$ d) 1
2. The median of the items 6, 10, 4, 3, 9, 11, 2 a) 9 b) 10	c) 9.5 d) 11
a) 60 b) 64	mode = 60 and mean = 66, then median = c) 68 d) None of these frequencies q^n , ${}^nC_1q^{n-1}p$, ${}^nC_2q^{n-2}p^2$, ${}^nC_np^n$, where p
a) np b) nq 5. Consider the following statements: 1. The AM of first n natural number is $\frac{1}{6}n(2n)$	c) $n(p+q)$ d) None of these
 2. In a moderately symmetric distribution, QD ≤ MD ≤ SD Which of these is/are not correct? a) Only (1) b) Only (2) 6. The AM of n observations is M. If the sum 	c) Both (1) and (2) d) None of these of $n-4$ observations is a , then the mean of remaining 4
 7. The standard derivation of the observation a) 2 8. The age distribution of workers in a factorious control of the observation of the observation	c) 3 d <mark>) 3.42</mark>
Age in Years No. of Workers 20-28 45 36-44 100 44-52 42 52-60 18	CHING
	est age group is retrenched and 20% of the total strength re retirement, then the age limit of workers retained in th
a) 20-36 b) 28-44	c) 28-52 d) 36-52
average marks of the complete class is 72) boys whose average marks in a subject are 75. If the , then what is the average of the girls?
a) 73 b) 65	c) 68 d) 74
students. The number of newspapers are	t reads 5 newspapers and every newspaper is read by 60
a) At least 30 b) At most 20 11. If the sum of the mode and men of a certa	c) Exactly 25 d) None of these ain frequency distribution is 129 and the median of the

observations is 63, mode and median are respectively b) 65 and 64 c) 68 and 61 d) None of these a) 69 and 60 12. For a series the value of mean deviation is 15, the most likely value of its quartile derivation is a) 12.5 d) 9.7 b) 11.6 c) 13 13. If the mean of n items is \bar{x} and the sum of any (n-1) number is R, then the value of left item is b) $n\bar{x} - R$ c) $\bar{x} + Rn$ d) $n\bar{x} - nR$ 14. If the mean deviation of number $1,1+d,1+2d,\ldots,1+100d$ from their mean is 255, then the d is equal to a) 10.0 b) 20.0 c) 10.1 d) 20.2 15. The weight (in kilogram) of 15 students are as follows 31, 35, 27, 29, 32, 43, 37, 41, 34, 28, 36, 44, 45, 42, 30. If the weight 44 kg is replaced by 46 kg and 27 kg is by 25 kg, then new median is c) 34 b) 33 d) 35 16. Consider the frequency distribution given below **Class-Interval Frequency** 0-10 4 10-20 6 20-30 10 30-40 16 40-50 14 The mean of the above distribution is c) 30 d) 31 a) 25 17. If the variance of 1,2,3,4,5,..., 10 is $\frac{99}{12}$, then the standard derivation of 3,6,9,12,...., 30 is c) $\frac{3}{2}\sqrt{99}$ a) $\frac{297}{4}$ b) $\frac{3}{2}\sqrt{33}$ 18. If each observation of a raw data whose variance is σ^2 is multiplied by h, then the variance of the new set is a) σ^2 b) $h^2\sigma^2$ c) $h \sigma^2$ d) $h + \sigma^2$

19. The mean income of a group of workers is \overline{X} and that of another group is \overline{Y} . If the number of workers in the second group is 10 times the number of workers in the first group, then the mean income of the

combined group is

a) $\frac{\overline{X}+10\overline{Y}}{3}$

b) $\frac{\overline{X}+10\overline{Y}}{11}$

c) $\frac{10 \overline{X} + \overline{Y}}{Y}$

20. If \overline{X} is the mean of $x_1, x_2, x_3 \dots x_n$. Then, the algebraic sum of the deviations about mean \overline{X} is

a) 0

b) \overline{X}

c) $n \overline{X}$

d) None of these