

Statistics

1. Calculate mean deviation about mean for the following data :
 - (a) Class Interval : 0-10 10-20 20-30 30-40 40-50 50-60
Frequency : 6 7 15 16 4 2
 - (b) Class Interval : 10-20 20-30 30-40 40-50 50-60 60-70 70-80
Frequency : 2 3 8 14 8 3 2
 - (c) Class Interval : 0-100 100-200 200-300 300-400 400-500 500-600 600-700 700-800
Frequency : 4 8 9 10 7 5 4 3
2. Calculate mean deviation about median for the following data :
 - (a) Class Interval : 0-10 10-20 20-30 30-40 40-50 50-60
Frequency : 5 7 14 16 5 3
 - (b) Class Interval : 10-20 20-30 30-40 40-50 50-60 60-70 70-80
Frequency : 3 3 9 13 7 3 2
 - (c) Class Interval : 0-100 100-200 200-300 300-400 400-500 500-600 600-700 700-800
Frequency : 3 8 9 9 8 5 4 4
3. Calculate mean, variance, standard deviation and coefficient of variation for the following data :
 - (a) Class Interval : 0-10 10-20 20-30 30-40 40-50 50-60
Frequency : 6 7 14 17 4 2
 - (b) Class Interval : 10-20 20-30 30-40 40-50 50-60 60-70 70-80
Frequency : 2 3 7 14 8 3 3
 - (c) Class Interval : 0-100 100-200 200-300 300-400 400-500 500-600 600-700 700-800
Frequency : 4 8 8 10 7 6 4 3

Multiple Choice Questions

1. If mean of a data is 160 and variance is 121 then its *C. V.* is equal to :
(a) 6.8 (b) 6 (c) 74 (d) 74.8
2. If $\bar{x} = 10$ and *C. V.* = 80 then σ is equal to :
(a) 9 (b) 8 (c) 81 (d) 64
3. If $\bar{x} = 10$ and *C. V.* = 80 then variance is equal to :
(a) 9 (b) 8 (c) 81 (d) 64
4. If mean of a data is 160 and standard deviation is 11 then its *C. V.* is equal to :
(a) 6.8 (b) 6 (c) 74 (d) 74.8
5. If the distribution having greater value of *C. V.* then:
(a) Data is more consistent (b) Data is more dispersed (c) Cannot say anything (d) none of these
6. If standard deviation of a data is 15 then its variance is equal to :
(a) 3.8 (b) 4 (c) 125 (d) 225
7. Mean median and mode are the measures of :
(a) dispersion (b) variation (c) central tendency (d) none of these
8. Mean deviation of a data is the measure of :
(a) scattering (b) central tendency (c) clustering (d) none of these
9. Range of the data 2, 6, 7, 8, 10, 11, 15 is equal to :
(a) 8.4 (b) 8 (c) 15 (d) 13
10. Median of the data 2, 6, 7, 8, 10, 11, 15 is equal to :
(a) 8.4 (b) 8 (c) 15 (d) 13