

## Class 11 Maths Chapter 15 Statistics MCQs For Practice

1. The mean deviation from the mean of the set of observations -1, 0, and 4 is

- (a) 3
- (b) 1
- (c) -2
- (d) 2

2. Mean deviation about the median for the data 13, 17, 16, 14, 11, 13, 10, 16, 11, 18, 12, 17 is:

- (a) 2.44
- (b) 2.33
- (c) 1.44
- (d) 1.33

3. Consider the following data

$x_i$	5	7	9	10	12	15
$f_i$	8	6	2	2	2	6

Then, the mean deviation about the median for the data is

- (a) 3.15
- (b) 3.23
- (c) 3.21
- (d) 3.17

4. Consider the following data

Marks Obtained	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Number of students	2	3	8	14	8	3	2

Then, the mean deviation about the mean is

- (a) 20
- (b) 10
- (c) 30
- (d) 15

5. The scores of a batsman in 10 innings are 48, 80, 58, 44, 52, 65, 73, 56, 64, 54, then the mean deviation from the median is

- (a) 7.6
- (b) 8.6
- (c) 9.6
- (d) 10.1

6.

Age (in years)	10	12	15	18	21	23
Frequency	3	5	4	10	8	4

The mean deviation about the median of the given frequency distribution is (in years):

- (a) 3.24
- (b) 2.24
- (c) 8.1
- (d) 7.2

7. Variance of the data 2, 4, 5, 6, 8, 17 is 23.33. Then, the variance of 4, 8, 10, 12, 16, 34 will be

- (a) 23.33
- (b) 25.33
- (c) 46.66
- (d) 48.88

8. In any discrete series when all values are not the same, the relation between mean deviation about mean and standard deviation is:

- (a)  $M.D = S.D$
- (b)  $M.D \geq S.D$
- (c)  $M.D < S.D$
- (d)  $M.D > S.D$

9. A car owner buys petrol at ₹ 7.50, ₹ 8.00 and ₹ 8.50 per litre for the 3 successive years. If he spends ₹ 4,000 each year, then the average cost per litre of petrol is

- (a) ₹ 8
- (b) ₹ 8.25
- (c) ₹ 7.98
- (d) None of the above

10. The AM and variance of 10 observations are 10 and 4 respectively. Later it is discovered that one observation was incorrectly read as 8 instead of 18. Then, the correct value of mean and variance are

- (a) 20, 9
- (b) 20, 14
- (c) 11, 9
- (d) 11, 5

\*\*\*\*\* ANSWER KEYS\*\*\*\*\*

Q.1 - (d)      Q.2 - (b)      Q.3 - (b)      Q.4 - (b)      Q.5 - (b)  
Q.6 - (a)      Q.7 - (c)      Q.8 - (c)      Q.9 - (c)      Q.10 - (c)