



Class 11 Mathematics | Statistics

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The mean of 2,4,6,8 is:

A. 6 B. 20 C. 4 D. 5

2. The range of 3,7,9,12 is:

A. 31 B. 9 C. 12 D. 3

3. The variance of 2,2,2,2 is:

A. 1 B. 0 C. 2 D. 4

4. The mean deviation about the mean for 1,3,5 is:

A. 0 B. $\frac{4}{3}$ C. 2 D. $\frac{8}{3}$

5. The variance of 1,2,3 is:

A. $\frac{2}{3}$ B. 2 C. 1 D. $\frac{1}{3}$

6. If variance is 16, standard deviation is:

A. 4 B. 8 C. 256 D. 16

7. Adding 5 to every observation changes variance by:

A. 25 B. 5 C. 10 D. 0

8. Multiplying every observation by 3 multiplies variance by:

A. 3 B. 6 C. $\frac{1}{3}$ D. 9

9. If standard deviation is 2, that of observations multiplied by -4 is:

A. 4 B. 16 C. 8 D. -8

10. For $x=1,2$ with frequencies 2,3, the mean is:

A. $\frac{5}{2}$ B. $\frac{8}{5}$ C. $\frac{3}{2}$ D. $\frac{7}{5}$

11. The variance of 4,6 is:

A. 4 B. 1 C. 2 D. 0

12. If mean=5 and mean of squares=29, variance equals:

A. 4 B. 24 C. 54 D. 25

13. The sum of deviations from the arithmetic mean is always:

A. 1 B. 0 C. The sample size D. The mean

14. Data A has SD 2, data B has SD 5 in the same units. Which is more dispersed?

A. Both equally B. B
C. Cannot compare SDs D. A

15. The mean deviation about the median of 1,2,9 is:

A. 0 B. $\frac{7}{3}$ C. 3 D. $\frac{8}{3}$

ANSWER KEY — check after completing all 15 questions

1.D 2.B 3.B 4.B 5.A 6.A 7.D 8.D 9.C 10.B 11.B 12.A 13.B 14.B 15.D

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper

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