



## Class 10 Mathematics | Statistics

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

**1. The class mark of 20-30 is:**

A. 30 B. 10 C. 25 D. 20

**2. Values 2,4,6 have frequencies 1,2,1. Their mean is:**

A. 12 B. 3 C. 6 D. 4

**3. The cumulative frequency for frequencies 3,5,7 up to the third class is:**

A. 12 B. 7 C. 15 D. 8

**4. The modal class is the class with:**

- A. highest frequency
- B. largest upper limit
- C. largest class mark always
- D. lowest frequency

**5. For classes 0-10,10-20,20-30 with frequencies 4,9,7, modal class is:**

A. 0-10 B. 10-20 C. all three D. 20-30

**6. Total frequency is 50. The median class is located using:**

- A. the 25th observation
- B. the 50th observation
- C. the largest observation
- D. the 10th observation

**7. For classes 0-10,10-20,20-30 with frequencies 3,5,2, the mean is:**

A. 13 B. 15 C. 14 D. 16

**8. Median class lower limit is 20, width 10,  $N=40$ , preceding cumulative frequency 12, class frequency 16. Median is:**

A. 28 B. 30 C. 25 D. 24

**9. If mean=18 and median=20, the empirical mode is:**

A. 24 B. 19 C. 16 D. 22

**10. Modal class lower limit 10, width 10;  $f_1=12, f_0=8, f_2=8$ . Mode is:**

A. 12 B. 15 C. 20 D. 18

**11. If each observation increases by 5, the mean:**

- A. increases by 25
- B. is unchanged
- C. increases by 5
- D. doubles

**12. Class marks are 5,15,25,35 for equal-width contiguous classes. Class width is:**

A. 15 B. 5 C. 20 D. 10

**13. Values 10 and 20 have frequencies 3 and 2. Their mean is:**

A. 12 B. 14 C. 15 D. 16

**14. The sum of all class frequencies equals:**

- A. total number of observations
- B. mean
- C. median
- D. class width

**15. For classes 0-10,10-20,20-30,30-40 and frequencies 2,6,10,2, median class is:**

A. 30-40 B. 20-30 C. 10-20 D. 0-10

**ANSWER KEY — check after completing all 15 questions**

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

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

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