MATHS

Statistics Worksheet for MAH MCA CET 2025

For students preparing for MCA Entrance Exam.

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1. The arithmetic mean of 10 observations is 12.45. If each reading is increased by 5, then resulting mean is increased by
   A. 5
   B. 29
   C. 0.5
   D. 50

2. On thirteen consecutive days the number of persons booked for violating speed limit of 40km/h were as follows
58, 61, 68, 57, 62, 50, 55, 62, 53, 54, 51, 59, 52
The median number of speed violations per day is
   A. 61
   B. 52
   C. 55
   D. 57

3. The geometric mean of
5, 8, 10, 15, 20, 25, 30, 35 is
   A. 16.9
   B. $10(9)^{1/7}$
   C. 18
   D. None of these

4. A class of 30 boys and 15 girls is given a test in Mathematics. The average marks obtained by boys is 15 and by girls is 6. The average of whole class is
   A. 10.5
   B. 12

   C. 45
   D. None of these

5. Which of the following is correct for data - 1, 0, 1, 2, 3, 5,5,6,8,10,117
   A. mean = mode = median
   B. mean = 5
   C. mean = mode
   D. mode = median

6. The mode of a moderatly symmetrical series is 18 and mean is 24. The median is
   A. 18
   B. 24
   C. 22
   D. 21

7. If the arithmetic mean of 9 observations is 100 and that of 6 is 80. Then the combined mean of all the 15 observations will be
   A. 100
   B. 80
   C. 90
   D. 92

8. Combined mean of two series x1, and x2 when $x_1 = 210$, $x_2 = 150$. $n_1 = 50$, $n_2 = 100$ is
   A. 150
   B. 160
   C. 170
   D. 180

9. Which of following is correct about the series 24, 38, 55, 69, 89?
   A. median = mode
   B. mean = mode
   C. mean = median
   D. None of these

10. In a monthly test, marks obtained in Mathematics by 15 students of a class are 0, 0, 2, 2, 3, 3, 3, 5, 5, 5, 5, 6, 6, 7, 8. The arithmetic mean of marks is
   A. 8
   B. 4
   C. 6
   D. 1

11. A frequency distribution

Daily Wages (Rupees)	5	6	7	10	12	15
No of workers	10	?	13	8	5	4

Has arithmetic mean 7.85, then missing terms is
   A. 10.5
   B. 10.05
   C. 15.5
   D. 15

12. The mean income of a group of 50 persons was calculated as ₹169. Later it was discovered that one figure was wrongly taken as 134 instead of correct value 143. The correct mean should be (in ₹)
   A. 168
   B. 169
   C. 168.92
   D. 169.18

13. An additional observation 15 is included in a series of 11 observations and its mean remains unaffected. The mean of series was
   A. 12
   B. 15
   C. 20
   D. None of these

14. The test marks in statistics for a class are 20, 24, 27, 38, 18, 42, 35, 21, 44, 18, 31, 36, 41, 26, 29. The median score of the class is
   A. 8
   B. 21
   C. 29
   D. 31

15. The median of a series is 10. Two additional observations 7 and 20 are added to series. The median of new series is
   A. 9
   B. 20
   C. 7
   D. 10

16. The mean of 18 observations is 7 and if each observation 5 is added, then the new mean will be
   A. 2
   B. 12
   C. 7
   D. None of these

17. The median value of observations 83, 54, 78, 64, 90, 59, 67, 72, 70, 73 is
   A. 70
   B. 71
   C. 72
   D. 73

18. The mode of a set of observations 7, 12, 8, 5, 6, 4, 9, 10, 8, 9, 7, 9, 6, 5, 9 is
   A. 7
   B. 8
   C. 9
   D. 12

19. The mean of n items is $\bar{x}$. If first item is increased by 1. Second item by 2, and so on, then new mean is
   A. $\bar{X} + \frac{n+1}{2}$
   B. $\bar{X} + \frac{n}{2}$
   C. $\bar{X} + n$

D. $\bar{X} + \frac{n-1}{2}$

20. The mean income of a group of workers is X and that of another group is Y. If the number of workers in the second group is 10 times the number of workers in the first group. then mean income of combined group is

A. $\frac{X+10Y}{3}$

B. $\frac{X+10Y}{11}$

C. $\frac{X+Y}{Y}$

D. $\frac{X+10Y}{9}$

21. The mean of 20 observations is 15. On checking it was found that the two observations were wrongly copied as 3 and 6. The correct values are 8 and 4, then correct mean will be given by

A. 15.15
B. 14.69
C. 14.74
D. 15.25

Answer Key

1. C	2. D	3. B	4. B	5. D	6. C	7. D	8. C	9. C	10. B
11. D	12. D	13. B	14. C	15. D	16. B	17. B	18. C	19. A	20. B
21. A									