MATHS

Averages Worksheet

For students preparing for MAH-B.BCA/BBA/BMS/BBM CET 2024 for admission to BCA, BBA, BMS, BBM

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1. The average of twelve numbers is 42. The average of the last five numbers is 40 and that of the first four numbers is 44. The 6th number is 6 less than the fifth and 5 less than the 7th number. The average of the 5th and the 7th numbers is:
   A. 44
   B. 44.5
   C. 43
   D. 43.5

2. The average weight of a certain number of students in a class is 68.5 kg. If 4 new students having weights 72.2 kg, 70.8kg, 70.3kg and 66.7 kg join the class, then the average weight of all the students increases by 300 g. The number of students in the class, initially is:
   A. 21
   B. 16
   C. 11
   D. 26

3. Three numbers are such that if the average of any two of them is added to the third number, the sums obtained are 168, 174 and 180 respectively. What is the average of the original three numbers?
   A. 86
   B. 87
   C. 89
   D. 84

4. The total number of students in section A and B of a class is 110. The number of students in section A is 10 more than that of section B. The average score of the students in B, in a test, is 20% more than that of students in A. If the average score of all the students in the class is 72, then what is the average score of the students in A?
   A. 66
   B. 68
   C. 63
   D. 70

5. Four different positive numbers are written in ascending order. One-third of the average of all the four numbers is 19 less than the greatest of these numbers. If the average of the first three numbers is 12, the greatest number among the given number is:
   A. 25
   B. 22
   C. 24
   D. 21

6. The average marks of 40 students was found to be 68. If the marks of two students were incorrectly entered as 48 and 64 instead of 84 and 46 respectively, then what is the correct average?
   A. 68.25
   B. 68.15
   C. 68.45
   D. 68.35

7. In a class of 40 students, 45% are girls and the remaining are boys. If the average of the girls marks is 54 and that of the boys is 46, what is the average of the whole class?

A. 49.8
B. 49.7
C. 49.6
D. 49.5

8. The average of 27 numbers is zero. Out of them, how many may be greater than zero, at the most?
A. 0
B. 15
C. 26
D. 20

9. 10 years ago, the average age of a family of five members was 38 years. Now, two new members join, whose age difference is 8 years. If the present average age of the family is the same as it was 10 years ago, what is the age (in years) of the new younger member?
A. 15
B. 9
C. 10
D. 17

10. The average of a number and its reciprocal is 4. The average of its cube and its reciprocal is equal to:
A. 256
B. 142
C. 288
D. 244

11. The average of the first 1234 _____ numbers is equal to 1234. Fill in the blank.
A. Odd
B. Even
C. Prime
D. Natural

12. Fill in the blank.
The average of the first 101 _____ number is equal to 102.
A. Natural
B. Odd
C. Even
D. Perfect Square

13. The difference between the average of first ten prime numbers and the first ten prime numbers of two digits is:
A. 14.5
B. 16.5

C. 12.5
D. 13.5

14. The average of 1088 real numbers is zero. At most how many of them can be negative?
A. 100
B. 88
C. 544
D. 1087

15. The average age of four brothers is 15 years. If their father is included, the average is increased by 5 years. The age of the father (in years) is:
A. 35
B. 40
C. 38
D. 36

16. The average of the squares of numbers 1 to 5 is:
A. 11
B. 5
C. 8
D. 9

17. The average of a and b is 36. The average of b and c is 42. What is the difference between c and a?
A. 18
B. 12
C. 16
D. 14

18. What is the average of the first 8 multiples of 6 among the natural numbers?
A. 24
B. 26
C. 27
D. 28

19. The average of all the prime and composite numbers upto 100 is:
A. 51
B. 50
C. 50.5
D. 49.5

20. The average weight of 12 articles is 18 kg. Addition of another new article reduces the average weight by 500g. What is the weight of the new article?

A. 11.5 kg
B. 15.0 kg
C. 11.0 kg
D. 10.1 kg

21. Given four different numbers, the average of first three numbers is four times the fourth number and the average of all the four numbers is 52. What is the average of the first three number?
    A. 39
    B. 65
    C. 70
    D. 64

22. The average of all prime numbers 21 to 50 is (round off to one decimal number)
    A. 35.9
    B. 34.8
    C. 33.7
    D. 32.9

23. What is the average of 59, 63, 68, 77, 74 and 73, when each number is divided by 23?
    A. $\frac{63}{23}$
    B. $\frac{67}{23}$
    C. 3
    D. 46

24. What is the average of the first 15 odd numbers among the natural numbers?
    A. 18
    B. 15
    C. 16
    D. 17

25. What is the average of the first 15 whole numbers?
    A. 8
    B. 7
    C. 9
    D. 10

26. Out of four numbers the average of the first three is 16 and that of the last three is 15. If the last number is 21 then the first number is:
    A. 28
    B. 22
    C. 21
    D. 24

Answer Key

1. B	2. B	3. B	4. A	5. C	6. C	7. C	8. C	9. B	10. D
11. A	12. C	13. D	14. D	15. B	16. A	17. B	18. C	19. A	20. A
21. D	22. A	23. C	24. B	25. B	26. D				