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1) The average of x numbers is y and average of y numbers is x . Then the average of all the numbers taken together is

- a) $\frac{x+y}{2xy}$ b) $\frac{2xy}{x+y}$
c) $\frac{(x^2+y^2)}{x+y}$ d) $\frac{xy}{x+y}$

2) If average of 20 observations x_1, x_2, \dots, x_{20} is y , then the average of $x_1 - 101, x_2 - 101, x_3 - 101, \dots, x_{20} - 101$ is

- a) $y-20$ b) $y-101$
c) $20y$ d) $101y$

3) The average of x numbers is y^2 and the average of y numbers is x^2 . So the average of all the numbers taken together is

- a) $\frac{(x^3+y^3)}{x+y}$ b) xy
c) $\frac{(x^2+y^2)}{x+y}$ d) $xy^2 + yx^2$

4) In a class, average height of all students is ' a ' cms. Among them, average height of 10 students is ' b ' cms and the average height of the remaining students is ' c ' cms. Find the number of students in the class. (Here $a > c$ and $b > c$)

- a) $\frac{(a(b-c))}{(a-c)}$ b) $\frac{(b-c)}{(a-c)}$
c) $\frac{(b-c)}{10(a-c)}$ d) $\frac{10(b-c)}{(a-c)}$

5) Average of n numbers is a . The first number is increased by 2, second one is increased by 4, the third one is increased by 8 and so on. The average of the new numbers is

- a) $a + \frac{(2^{(n-1)}-1)}{n}$ b) $a + 2 \frac{(2^n-1)}{n}$
c) $a + \frac{2^{(n-1)}}{n}$ d) $a + \frac{2^n-1}{n}$

6) a, b, c, d, e, f, g are consecutive even numbers. j, k, l, m, n are consecutive odd numbers. The average of all the numbers is

- a) $3 \left(\frac{a+n}{2} \right)$ b) $\left(\frac{a+d}{2} \right)$
c) $\frac{a+b+m+n}{4}$ d) $\frac{j+c+n+g}{4}$

7) The average of nine consecutive numbers is n . If the next two numbers are also included the new average w

- a) Increase by 2 b) Remain the same
c) Increase by 1.5 d) Increase by 1

8) The average of 5 consecutive integers starting with ' m ' is n . What is the average of 6 consecutive integers starting with $(m+2)$?

- a) $\frac{2n+5}{2}$ b) $n+2$
c) $n+3$ d) $\frac{2n+9}{2}$

9) If a, b, c, d, e are five consecutive odd numbers, their average is

- a) $5(a+4)$ b) $\frac{abcde}{5}$
c) $5(a+b+c+d+e)$ d) $a+4$

10) The average monthly income (in Rs) of certain agricultural workers is S and that of other workers is T . The number of agricultural workers is 11 times that of other workers. Then, the average monthly income (in Rs) of all the workers is :

- a) $\frac{S+11T}{12}$ b) $\frac{S+T}{12}$
c) $\frac{11S+T}{12}$ d) $\frac{1}{11S} + T$

11) If the average of x and $\frac{1}{x} (x \neq 0)$ is M , then the average of x^2 and $\frac{1}{x^2}$ is :





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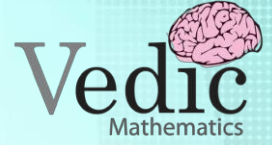
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a) $1-M^2$

b) $1-2M$

c) Rs.1,280

d) Rs.1,260

c) $2M^2-1$

d) $2M^2+1$

12) If the average of m numbers is n^2 and that of n numbers is m^2 , then average of $(m+n)$ numbers is

a) $\frac{m}{n}$ b) $m+n$ c) mn d) $m-n$

13) Numbers of boys and girls are 'x' and 'y' respectively. Ages of a girl and a boy are 'a' years and 'b' years respectively. The average age (in years) of all boys and girls is

a) $\frac{x+y}{bx+ay}$ b) $\frac{x+y}{bx-ay}$
c) $\frac{bx+ay}{x+y}$ d) $\frac{x+y}{ax+by}$

14) Six friends have an average height of 167 cms. A boy with height 162 cm leaves the group. Find the new average height.

a) 169 cm b) 167 cm
c) 166 cm d) 168 cm

15) The average weight of 15 oarsmen in a boat is increased by 1.6 kg when one of the crew, who weighs 42 kg is replaced by a new man. Find the weight of the new man (in kg).

a) 66 b) 43 c) 65 d) 67

16) Six tables and twelve chairs were bought for Rs.7,800. If the average price of a table is Rs.750, then the average price of a chair would be

a) Rs.150 b) Rs.175
c) Rs.275 d) Rs.250

17) The average monthly expenditure of a family is Rs.2,200 during first three months, Rs.2,550 during next four months and Rs.3,120 during last five months of the year. If the total savings during the year was Rs.1,260, what is the average monthly income ?

a) Rs.2,805 b) Rs.2,850

18) There are two groups A and B of a class, consisting of 42 and 28 students respectively. If the average weight of group A is 25 kg and that of group B is 40 kg, find the average weight of the whole class.

a) 70 kg b) 30 kg
c) 31 kg d) 69 kg

19) The mean of 9 observations is 16. One more observation is included and the new mean becomes 17. The 10th observation is

a) 26 b) 30 c) 16 d) 9

20) The average of some natural numbers is 15. If 30 is added to first number and 5 is subtracted from the last number the average becomes 17.5 then the number of natural number is

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

21) The average income of 40 persons is Rs. 4200 and that of another 35 persons is Rs. 4000. The average income of the whole group is :

a) Rs.4106 $\frac{2}{3}$ b) Rs.4108 $\frac{1}{3}$
c) Rs.4106 $\frac{1}{3}$ d) Rs.4100

22) The average of 1, 3, 5, 7, 9, 11, ----- to 25 terms is

a) 625 b) 50 c) 25 d) 125

23) The average weight of 3 men A, B and C is 84 kg. Another man D joins the group and the average now becomes 80 kg. If another man E whose weight is 3 kg more than that of D, replaces A, then the average weight of B, C, D and E becomes 79 kg. Then weight of A is

a) 75 kg. b) 76 kg.
c) 74 kg. d) 72 kg.





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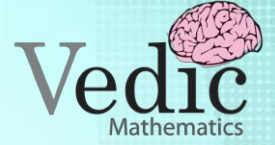
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24) The average of 30 results is 20 and the average of other 20 results is 30. What is the average of all the results ?

- a) 25 b) 50 c) 48 d) 24

25) If average of 20 observations x_1, x_2, \dots, x_{20} is y , then the average of $x_1-101, x_2-101, x_3-101, \dots, x_{20}-101$ is

- a) $20y$ b) $101y$
c) $y - 101$ d) $y - 20$

26) The average weight of 8 persons increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. The weight of the new person is

- a) 76 kg b) 76.5 kg
c) 85 kg d) 84 kg

27) The average marks of 32 boys of section A of class X is 60 whereas the average marks of 40 boys of section B of class X is 33. The average marks for both the sections combined together is

- a) $46\frac{1}{2}$ b) $45\frac{1}{2}$ c) 45 d) 44

28) The average of 20 numbers is 15 and the average of first five is 12. The average of the rest is

- a) 14 b) 13 c) 15 d) 16

29) The average of marks obtained by 100 candidates in a certain examination is 30. If the average marks of passed candidates is 35 and that of the failed candidates is 10, what is the number of candidates who passed the examination?

- a) 80 b) 90 c) 70 d) 60

30) The average of 30 numbers is 15. The average of the first 18 numbers is 10 and that of the next 11 numbers is 20. The last number is

- a) 60 b) 50 c) 52 d) 56

31) A student was asked to find the arithmetic mean of the following 12 numbers : 3, 11, 7, 9, 15, 13, 8, 19, 17, 21, 14 and x . He found the mean to be 12. The value of x will be :

- a) 17 b) 31 c) 7 d) 3

32) The average of 100 observations was calculated as 35. It was found later, that one of the observations was misread as 83 instead of 53. The correct average is :

- a) 35.7 b) 36.7 c) 34.7 d) 32.7

33) Three Science classes A, B and C take a Life Science test. The average score of class A is 83. The average score of class B is 76. The average score of class C is 85. The average score of class A and B is 79 and average score of class B and C is 81. Then the average score of classes A, B and C is

- a) 80.5 b) 80 c) 81 d) 81.5

34) Out of 20 boys, 6 are each of 1 m 15 cm height, 8 are of 1 m 10 cm and rest of 1 m 12 cm. The average height of all of them is

- a) 1 m 21 cm b) 1 m 12 cm
c) 1 m 21.1 cm d) 1 m 12.1 cm

35) A library has an average number of 510 visitors on Sunday and 240 on other days. The average number of visitors per day in a month of 30 days beginning with Sunday is :

- a) 300 b) 290 c) 295 d) 285

36) If the average weight of 6 students is 50 kg; that of 2 students is 51 kg; and that of other 2 students is 55 kg; then the average weight of all students is

- a) 52 kg b) 51.2 kg
c) 51.5 kg d) 61 kg





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37) The average monthly salary of all the employees in an industry is Rs.12,000. The average salary of male employees is Rs.15,000 and that of female employees is Rs.8,000. What is the ratio of male employees to female employees ?

- a) 4 : 3 b) 2 : 5 c) 3 : 4 d) 5 : 2

38) The average marks obtained by a class of 60 students is 65. The average marks of half of the students is found to be 85. The average marks of the remaining students is

- a) 55 b) 65 c) 45 d) 35

39) A librarian purchased 50 story- books for his library. But he saw that he could get 14 more books by spending Rs. 76 more and the average price per book would be reduced by Re. 1. The average price (in Rs.) of each book he bought, was :

- a) 25 b) 20 c) 10 d) 15

40) Total weekly emoluments of the workers of a factory is Rs.1534. Average weekly emolument of a worker is Rs.118. The number of workers in the factory is :

- a) 13 b) 12 c) 14 d) 16

41) The average weight of first 11 persons among 12 persons is 95 kg. The weight of 12th person is 33 kg more than the average weight of all the 12 persons. The weight of the 12th person is

- a) 131 kg b) 97.45 kg
c) 128 kg d) 128.75 kg

42) The average of the marks obtained in an examination by 8 students was 51 and by 9 other students was 68. The average marks of all 17 students was :

- a) 60 b) 60.5 c) 59.5 d) 59

43) There are 100 students in 3 sections A, B and C of a class. The average marks of all the 3 sections was 84. The average of B and C was 87.5 and the average marks of A is 70. The number of students in A was

- a) 20 b) 25 c) 35 d) 30

44) A man bought 13 articles at Rs.70 each, 15 at Rs.60 each and 12 at Rs.65 each. The average price per article is

- a) Rs.65.75 b) Rs.62.25
c) Rs.64.75 d) Rs.60.25

45) The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is :

- a) 29.5 kg. b) 35 kg.
c) 32 kg. d) 31 kg.

46) The average weight of five persons sitting in a boat is 38 kg. The average weight of the boat and the persons sitting in the boat is 52kg. What is the weight of the boat ?

- a) 232 kg b) 242 kg
c) 122 kg d) 228 kg

47) The average of 8 numbers is 27. If each of the numbers is multiplied by 8, find the average of new set of numbers.

- a) 316 b) 216 c) 938 d) 1128

48) 12 kg of rice costing Rs.30 per kg is mixed with 8 kg of rice costing Rs.40 per kg. The average per kg price of mixed rice is

- a) Rs.35 b) Rs.34
c) Rs.37 d) Rs.38

49) 4 boys and 3 girls spent Rs.120 on the average, of which boys spent Rs.150 on the average. Then the average amount spent by the girls is

- a) Rs.90 b) Rs.100
c) Rs.60 d) Rs.80





50) The average of 10 numbers is 7. If each number is multiplied by 12, then the average of the new set of numbers will be

- a) 82 b) 84
c) 19 d) 7

51) The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight (in kg) of B is

- a) 31 b) 17 c) 26 d) 20

52) The average of 100 numbers is 44. The average of these 100 numbers and 4 other new numbers is 50.

The average of the four new numbers will be

- a) 176 b) 24 c) 200 d) 800

53) The average of 25 results is 20. The average of first 12 results is 15 and that of the last 12 results is 18.

Then, the 13th result is :

- a) 104 b) 103 c) 101 d) 100

54) Find the average of 1.11 , 0.01 , 0.101 , 0.001 and 0.11

- a) 0.1264 b) 0.1164 c) 0.2554 d) 0.2664

55) The average of 30 numbers is 40 and that of other 40 numbers is 30. The average of all the numbers is

- a) 34 b) 34.5 c) 35 d) $34\frac{2}{7}$

56) The arithmetic mean of the following numbers 1, 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5, 6, 6, 6, 6, 6 and 7, 7, 7, 7, 7, 7 is

- a) 14 b) 20 c) 5 d) 4

57) If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55 and 60, then the average marks of all the students is

- a) 55 b) None of these
c) 53.33 d) 54.68

58) The average marks of 50 students in a class is 72. The average marks of boys and girls in that subject are 70 and 75 respectively. The number of boys in the class is

- a) 25 b) 30 c) 35 d) 20

59) The mean high temperature of the first four days of a week is 25°C whereas the mean of the last four days is 25.5°C. If the mean temperature of the whole week is 25.2°C then the temperature on the 4th day is

- a) 25.2°C b) 25.6°C
c) 25°C d) 25.5°C

60) The average of all the numbers between 6 and 50 which are divisible by 5 is

- a) 28.5 b) 22 c) 30 d) 27.5

61) The average of n numbers x_1, x_2, \dots, x_n is \bar{x} . Then the value of $\sum_{i=1}^n (x_i - \bar{x})$ is equal to :

- a) $n\bar{x}$ b) \bar{x} c) 0 d) n





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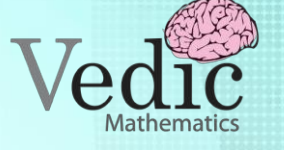
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