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VEDIC Mathematics

1) The average of six numbers is 20. If one number is removed, the average becomes 15. What is the number removed ?
a) 35　　　b) 5
c) 45　　　d) 112

2) A tabulator while calculating the average marks of 100 students of an examination, by mistake enters 68, instead of 86 and obtained the average as 58; the actual average marks of those students is
a) 57.82　　b) 58.18
c) 57.28　　d) 58.81

3) The average of l0 items was found to be 80 but while calculating, one of the items was counted as 60 instead of 50. Then the correct average would have been :
a) 79.25　　　b) 69
c) 79.5　　　d) 79

4) The mean of 20 items is 47. Later it is found that the item 62 is wrongly written as 26. Find the correct mean.
a) 47·7　　b) 48·8
c) 46·6　　d) 49·9

5) The average of 18 observations is recorded as 124. Later it was found that two observations with values 64 and 28 were entered wrongly as 46 and 82. Find the correct average of the 18 observations.
a) 122　　　　　b) $111\frac{7}{9}$
c) $137\frac{3}{9}$　　　d) 123

6) The average of seven numbers is 18. If one of the number is 17 and if it is replaced by 31, then the average becomes :
a) 19.5　　b) 21.5
c) 21　　　d) 20

7) Mean of 10 numbers is 30. Later on it was observed that numbers 15, 23 are wrongly taken as 51, 32. The correct mean is
a) 32　　　b) 25.5
c) 34.5　　d) 30

8) The mean value of 20 observations was found to be 75, but later on it was detected that 97 was misread as 79. Find the correct mean.
a) 75.8　　b) 75.7
c) 75.6　　d) 75.9

9) There are 50 students in a class. One of them weighing 50 kg goes away and a new student joins. By this the average weight of the class increases by $\frac{1}{2}$kg. The weight of the new student is :
a) 72 kg　　b) 70 kg
c) 76 kg　　d) 75 kg

10) The average weight of 20 students in a class is increased by 0.75 kg when one of the students weighing 30 kg is replaced by a new student. Weight of the new student (in kg) is :
a) 40　　　b) 35
c) 50　　　d) 45

11) The average of 50 numbers is 38. If two numbers, namely 45 and 55 are discarded, the average of the remaining numbers is
a) 37.9　　b) 37.5
c) 37.0　　d) 36.5

12) The average of 9 observations was found to be 35. Later on, it was detected that an observation 81 was misread as 18. The correct average of the observations is :
a) 42　　　b) 28
c) 45　　　d) 32

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13) The average of 25 observations is 13. It was later found that an observation 73 was wrongly entered as 48. The new average is

a) 14 b) 12.6
c) 13.8 d) 15

14) In an exam, the average marks obtained by the students was found to be 60. After omission of computational errors, the average marks of 100 candidates had to be changed from 60 to 30 and the average with respect to all the examinees came down to 45 marks. The total number of candidates who took the exam, was

a) 210 b) 200
c) 180 d) 240

15) The average of 20 numbers is calculated as 35. It is discovered later, that while calculating the average, one number, namely 85, was read as 45. The correct average is

a) 37 b) 36.5
c) 36 d) 37.5

16) A student, by mistake, wrote 64 in place of 46 as a number at the time of finding the average of 10 given numbers and got the average as 50. The correct average of the numbers is :

a) 48 b) 48.2
c) 49 d) 48.1

17) In an examination, the average of marks was found to be 50. For deducting marks for computational errors, the marks of 100 candidates had to be changed from 90 to 60 each and so the average of marks came down to 45. The total number of candidates, who appeared at the examination, was

a) 300 b) 600
c) 150 d) 200

18) The average marks obtained by 22 candidates in an examination are 45. The average marks of the first 10 candidates are 55 and those of the last eleven are 40. The number of marks obtained by the eleventh candidate is

a) 0 b) 45
c) 47.5 d) 50

19) The average marks of 100 students were found to be 40. Later on it was discovered that a score of 53 was misread as 83. Find the correct average corresponding to the correct score.

a) 39 b) 38.7
c) 41 d) 39.7

20) The average weight of a group of 20 boys was calculated to be 89.4 kg and it was later discovered that one weight was misread as 78 kg. instead of 87kg. The correct average weight is

a) 89.25 kg b) 88.95 kg
c) 89.85 kg d) 89.55 kg