Average

1. The average marks in English subject of a class of 24 students is 56. If the marks of three students were misread as 44, 45 and 61 against actual marks of 48, 59 and 67 respectively, then what would be the correct average?
(A) 56   **(B)** 55
(C) 57.5   **(D)** 58.5
(E) None of these

2. A student took 4 papers in an examination, where the maximum marks were the same for each paper. In all papers together, the candidate obtained 60% of the total marks. His marks in these papers were in the ratio of 24:30:32:34. Then in how many of the papers he got more than 60% marks?
(A) 6   **(B)** 5
(C) 4   **(D)** 3
(E) 2

3. The average weight of A, B, C and D is 33 kgs. C is 12kgs lighter than A while B is 6 kg heavier than C. D's weight is 10 kgs less than that of C. What is the average weight of A and D?
(A) 32 kg   **(B)** 33 kg
(C) 34 kg   **(D)** 35 kg
(E) None of these

4. In an office of 40 people, the average salary of class-A, class-B and class-C officer is Rs600, Rs750 and Rs. 1000 a day respectively and there ratio of strength is 5:4:1 respectively. Find the monthly average salary of an officer (in Rs.)? Assume the number of days in a month to be 30.
(A) 21000   **(B)** 24600
(C) 25800   **(D)** 24030
(E) None of these

5. The average age of 29 students in a class is 26 years. If the age of teacher is also included the average age of the class becomes 26.4 years. Find the age of the teacher.
(A) 32 years   **(B)** 36 years
(C) 42 years   **(D)** 38 years
(E) 48 years

6. There are 45 students in a hostel. If the number of student increases by 5, the expenses of the mess increases by Rs.30 per day while the average expenditure per head diminishes by Rs.2. Find the original expenditure of the mess.
(A) Rs. 1200   **(B)** Rs. 1170
(C) Rs. 1710   **(D)** Rs. 1250
(E) Rs. 1240

7. In a set of 6 numbers, the average of first four is 10 and that of last four is 8. If the average of all the six numbers is 9, then find the average of the third and fourth number.
(A) 7   **(B)** 8
(C) 9   **(D)** 10
(E) 11

8. Three Science classes A, B and C take a Life Science test. The average score of students of class A is 83. The average score of students 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   **(B)** 80.5
(C) 81   **(D)** 81.5
(E) None of these

9. The second lowest number of five consecutive odd number series is four more than the 5/12 th of the third highest number of a five consecutive even number series. If the average of five consecutive even number series is 60, then find the difference between the highest number of both the series?

(A) 27   (B) 29
(C) 31   (D) 33
(E) 37

10. In the given questions, two quantities are given, one as Quantity I and another as Quantity II. You have to determine relationship between two quantities and choose the appropriate option.

Quantity I: Three boys of a class of weight 75, 68 and 57 are replaced by 23, 41 and 56. Due to which average weight of class is decreased by 2.5. What is the strength of class.

Quantity II: 50

(A) Quantity I > Quantity II
(B) Quantity I < Quantity II
(C) Quantity I ≥ Quantity II
(D) Quantity I ≤ Quantity II
(E) Quantity I = Quantity II or no relation

11. 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. Found the correct average corresponding to the correct score.

(A) 38.7   (B) 39
(C) 39.7   (D) 41
(E) None of these

12. The average age (in years) of a group of people is twice the number of people in the group. A person, X, leaves the group and the average age is still twice the number of people in the group. Now another person, Y, leaves the group and the average age is still twice the number of people in the group. If the ratio of the ages of X and Y is 19 : 17,

then find the average age of the group, if one more person, Z, of age 16 years, leaves the group.

(A) 10   (B) 15
(C) 16   (D) 18
(E) None of these

13. A student studied four subjects in his bachelor's degree. If the ratio of marks in subject A and B is 1:2, in subject B and C is 2:5 and in subject A and D is 1:4. If she has scored an average of 84 marks in a subject. In how many subjects did she score equal to or greater than 60 marks?

(A) 1   (B) 2
(C) 3   (D) 4
(E) Cannot be determined

14. Average score of Rahul, Manish and Suresh is 63. Rahul's score is 15 less than Ajay and 10 more than Manish. If Ajay scored 30 marks more than the average score of Rahul, Manish and Suresh, what is the sum of Manish's and Suresh's scores?

(A) 120   (B) 111
(C) 117
(D) Cannot be determined
(E) None of these

15. 12 years ago, there were 7 members in Arun's family & then the average age of the family was 28 years. His father died three years ago from present & then the average age of the family was 26 years. Then his father died at the age of-

(A) 88 years   (B) 93 years
(C) 103 years   (D) 106 years
(E) 97 years

16. The average weight of three men A, B and C is 65 kg. Another man D joins the group and the average now becomes 68 kg. If another man E whose weight is 4 kg less than that of D, replaces A then the average weight of B,

C, D and E becomes 67 kg. Find the weight of A?

(A) 75 kg   **(B)** 78 kg
(C) 77 kg   **(D)** 82 kg
(E) 86 kg

17. The average wages of four farmers in a field is Rs. 60. If the difference between the wages of the farmer with the lowest wages and second lowest wages, difference between the wages of the farmer with the second lowest and third lowest wages and so on is Rs. 20, then wage of a farmer with least wage is -

(A) Rs. 30   **(B)** Rs. 80
(C) Rs. 50   **(D)** Rs. 40
(E) Rs. 60

18. The average age of 40 teachers in a school in 2007 was 35 years. In 2009, 10 teachers retired from the job, whose average age was 50 years. In 2012, 20 teachers joined the school, whose average age was 30 years. What was the total age of all the teachers in 2015 assuming that no teacher joined or left the school apart from the ones mentioned in the question?

(A) 1450 years   **(B)** 1560 years

(C) 1820 years   **(D)** 1720 years
(E) None of these

19. The average age of 100 bankers in PNB in 2002 was 50 years. In 2004, 20 bankers retired from their posts, whose average age was 60 years. After a certain gap in 2007, 40 bankers joined PNB whose average age was 38 years. The average age of all the bankers in 2010 was?

(A) 45 years   **(B)** 51 years
(C) 60 years   **(D)** 40 years
(E) 48 years

20. In a college, 180 students took admission in Computer science department, of which 100 are girls and rest are boys. The average marks of 80 boys and 100 girls was calculated as 124 and 92 respectively. However, it was later found that the marks of one of the girl were read as 122 while her actual marks were 82. Similarly in the case of boys, the marks of one boy were read as 110 instead of 130. What is the actual average marks of 180 students?

(A) 117.6   **(B)** 112.4
(C) 106.1   **(D)** 99.8
(E) 115.4