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## சராசரி

### AVERAGE

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## AVERAGE

Q.1) The average height of the first six students is 170 cm, the average height of the last eight students is 175 cm. The average height of the total 16 students is 180 cm. Find the average height of the rest two students.

- a) 210 cm
- b) 250 cm
- c) 240 cm
- d) 230 cm
- e) 260 cm

Q.2) The average salary of each trainee in an startup is Rs. 90. The average salary of 16 trainees is Rs.708.75 and the average salary of the rest is Rs. 75. How many trainees does the startup have?

- a) 670
- b) 676
- c) 682
- d) 840
- e) None of these

Q.3) In a hostel, food is available for 200 students for 50 days. After 10 days, 50 more students join the hostel. For how many more days will the food last?

- a) 42 days
- b) 32 days
- c) 30 days
- d) 40 days
- e) None of these

Q.4) The average weight of five friends P, Q, R, S, and T is  $(x + 6)$  kg while the average weight of R and T is  $(x - 6)$  kg. If the weight of another person U is also added, then average weight of all of them is reduced by 5 kg. Find the value of 'x' if average weight of P, Q, S and U is 94.5 kg.

- a) 74
- b) 80
- c) 84
- d) 90
- e) 94

Q.5) A, B, C, D and E are five persons. The weight of A, B and C is 90%, 112% and 94% respectively of the average weight of all five. The ratio of weight of D and E is 6 : 11. The difference between the weight of D and E is 75kg. What is the average weight of all the five persons?

- a) 84 kg
- b) 90 kg
- c) 76 kg
- d) 69 kg
- e) 125 kg

Q.6) The average age of girls in the class is 15 years. The average age of boys in the class also added, then the average becomes 18. If there are 18 boys in the class and the average age of boys in the class is 20, then find how many girls in the class?

- a) 18
- b) 24
- c) 12
- d) 16
- e) None of these

Q.7) The average marks of Raji in a certain examination is 85. If she got 20 more marks in Maths and 12 more marks in English, then the average becomes 89. Find the total number of subjects she studied?

- a) 8
- b) 5
- c) 7
- d) 9
- e) None of these

Q.8) The average salary of the whole employees in a company is Rs. 300 per day. The average salary of officers is Rs. 800 per day and that of clerks is Rs. 240 per day. If the number of officers is 30, then find the number of clerks in the company?

- a) 180
- b) 160

- c) 220
- d) 250
- e) None of these

Q.9) The average age of 25 students in a class is 20. If the age of a teacher is included, then the average age increased by one year, find the age of the teacher?

- a) 42 years
- b) 46 years
- c) 38 years
- d) 34 years
- e) None of these

Q.10) The average height of 20 students is 105 cm. But later it was found that, the heights of 2 students were wrongly entered as 75 instead of 68 and 91 instead of 108. Then find the correct average?

- a) 98 cm
- b) 84 cm
- c) 105.5 cm
- d) 100.5 cm
- e) None of these

Q.11) The Average marks obtained by 45 students in an examination is 12. If the average marks of passed students are 14 and that of failed students are 5, then find the number of students who passed the examination?

- a) 35
- b) 42
- c) 30
- d) 26
- e) None of these

Q.12) The average weight of 20 people is increased by 2.2 kg when one man weight 53 kg is replaced by another man. Find the weight of new man?

- a) 88 kg
- b) 82 kg
- c) 93 kg
- d) 97 kg
- e) None of these

Q.13) Average number of sweets distributed in a class of 52 students is 5. If some number of students newly joined in the class and the average becomes 4, then find the number of newly joined students?

- a) 18
- b) 13
- c) 22
- d) 24
- e) None of these

Q.14) The average weight of 50 students in a class is 60 kg. The weights of two students were wrongly entered as 74 kg and 66 kg instead of 66 kg and 54 kg respectively. Find the corrected average weight of the class?

- a) 45.58 kg
- b) 51.50 kg
- c) 59.60 kg
- d) 55.80 kg
- e) 53.20 kg

Q.15) The average of 5 numbers is 120. The average of the first two numbers is 125 and the average of the last two numbers is 130. What is the third number?

- a) 90
- b) 110
- c) 100
- d) 125
- e) None of these

Q.16) The average weight of 39 Students in a class is 23. Among them Sita is the heaviest while Tina is the lightest. If both of them are excluded from the class still the average remains same. The ratio of weight of Sita to Tina is 15:8. Then what is the weight of the Tina?

- a) 15
- b) 16
- c) 18
- d) 19
- e) Cannot be determined

Q.17) There are 459 students in a hostel. If the number of students increased by 36, the expenses of the mess increased by Rs .81 Per day while the average expenditure per head reduced by 1. Find the original expenditure of the mess?

- a) 7304
- b)7314
- c) 7324
- d)7334
- e) 7344

Q.18) The average weight of 40 Students is 32. If the Heaviest and Lightest are excluded the average weight reduces by 1. If only the Heaviest is excluded then the average is 31. Then what is the weight of the Lightest?

- a) 30
- b)31
- c) 32
- d)33
- e) Cannot be determined

Q.19) Average marks obtained in English by 17 girls of a class is 35. The marks obtained by them is arranged in ascending order form and in Arithmetic progression. If the marks obtained by the 2<sup>nd</sup>, 6<sup>th</sup>, 9<sup>th</sup>, 12<sup>th</sup> and 16<sup>th</sup> position are removed from the table, then find the new average of marks obtained by the remaining girls in English.

- a) 33
- b) 35
- c) 37
- d) Can't be determined
- e) None of these

Q.20) Average marks of group of students is 48. Out of these, 3 students with marks 43, 68 and 51 are removed and a new student with a score of 84 is added to the list. If the number of students in the group was 8, then find the percentage increase in the average marks with respect to the initial average?

- a) 6.25%
- b) 5.75%
- c) 8.25%
- d) 6.75%
- e) None of these

Q.21) 'N' is the number employees in a Bengaluru based IT company. The average age of employees working in the company is 35 years. What will be the average age of these employees in next two years when 10 employees will retire. Given that, retirement age is 60 years and N = 40.

- a)  $\frac{87}{13}$
- b)  $\frac{83}{7}$
- c)  $\frac{86}{13}$
- d)  $\frac{86}{3}$
- e)  $\frac{88}{3}$

Q.22) Rajiv decided to go for a dinner with his 12 friends. He paid Rs. 145 and each of his friends paid some equal amount. They later found out that the average amount that should be paid by all of them was 5 more than what was actually paid by each of his friends. How much money did each of his friend pay?

- a) Rs. 80
- b) Rs. 90
- c) Rs. 150
- d) Rs. 100
- e) None of these

Q.23) A family has 5 members, Father, mother and their three children. The average age of family immediately after the birth of first, second and third child was 16, 15.75 and 14.2 years respectively. What is the age of elder child, if the present age of entire family is 15.2 years?

- a) 6 years
- b) 7 years
- c) 8 years
- d) 5 years
- e) 4 years

Q.24) In an exam of 100 marks, the average marks of a class of 40 students are 76. If the top 3 scorers of the class leave, the average score falls "down by 1. If the other two toppers except "the highest topper scored not more than 85. "then what is the minimum score the topper can score?

- a) 86
- b) 98
- c) 95
- d) 92
- e) None of these

Q.25) Average weight of three friends Amar, Visera and Daman is 70 kg. Another person Vishal joins the group and now the average is 66 kg. If another person Tahir whose weight is 6 kg more than Vishal, joins the group replacing Amar, then average weight of Visera, Daman, Vishal and Tahir becomes 75 kg. What is the weight of Amar (in kg)?

- a) 18
- b) 20
- c) 22
- d) 24
- e) None of these

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