

## AVERAGES

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- 1) The average wages of a worker during a fortnight comprising 15 consecutive working days was Rs.90 per day. During the first 7 days, his average wages was Rs.87/day and the average wages during the last 7 days was Rs.92 /day. What was his wage on the 8th day?
- A.83      B.92    C.90    D.97
- 2) The average temperature on Wednesday, Thursday and Friday was  $25^{\circ}$ . The average temperature on Thursday, Friday and Saturday was  $24^{\circ}$ . If the temperature on Saturday was  $27^{\circ}$ , what was the temperature on Wednesday?
- A.  $24^{\circ}$ .      B.  $21^{\circ}$ .      C.  $27^{\circ}$ .      D.  $30^{\circ}$ .
- 3) When a student weighing 45 kgs left a class, the average weight of the remaining 59 students increased by 200 g. What is the average weight of the remaining 59 students?
- A. 57      B. 56.8      C.58.2      D.52.2
- 4) The difference between two angles of a triangle is  $24^{\circ}$ . The average of the same two angles is  $54^{\circ}$ . Which one of the following is the value of the greatest angle of the triangle?
- A.  $45^{\circ}$       B.  $60^{\circ}$       C.  $66^{\circ}$       D.  $72^{\circ}$
- 5) The average age of a family of 5 members is 20 years. If the age of the youngest member be 10 years then what was the average age of the family at the time of the birth of the youngest member?
- A. 13.5      B. 14      C. 15      D. 12.5
- 6) Which one of the following numbers can be removed from the set  $S = \{0, 2, 4, 5, 9\}$  without changing the average of set  $S$ ?
- A.0      B.2      C.4      D.5
- 7) Average cost of 5 apples and 4 mangoes is Rs. 36. The average cost of 7 apples and 8 mangoes is Rs. 48. Find the total cost of 24 apples and 24 mangoes.
- A.1044      B.2088      C.720      D.324
- 8) The average salary of all the workers in a workshop is Rs.8000. The average salary of 7 technicians is Rs.12000 and the average salary of the rest is Rs.6000. The total number of workers in the workshop is:
- A.20      B.21      C.22      D.23
- 9) In a set of three numbers, the average of first two numbers is 2, the average of the last two numbers is 3, and the average of the first and the last numbers is 4. What is the average of three numbers?
- A.2      B.2.5      C.3      D.3.5
- 10) The average monthly salary of 12 workers and 3 managers in a factory was Rs. 600. When one of the manager whose salary was Rs. 720, was replaced with a new manager, then the average salary of the team went down to 580. What is the salary of the new manager?
- A.570      B.420      C.690      D.640
- 11) A student finds the average of 10 positive integers. Each integer contains two digits. By mistake, the boy interchanges the digits of one number say  $ba$  for  $ab$ . Due to this, the average becomes 1.8 less than the previous one. What was the difference of the two digits  $a$  and  $b$ ?
- A.8      B.6      C.2      D.4

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- 12) In 2011, the arithmetic mean of the annual incomes of Ramesh and Suresh was Rs. 3800. The arithmetic mean of the annual incomes of Suresh and Pratap was Rs. 4800, and the arithmetic mean of the annual incomes of Pratap and Ramesh was Rs. 5800. What is the arithmetic mean of the incomes of the three?
- A.4000      B.4200      C.4400      D.4800
- 13) There are two sections A and B of a class, consisting of 36 and 44 students' respectively. If the average weight of section A is 40kg and that of section B is 35kg, find the average weight of the whole class.
- A.30      B.35      C.37.25      D.42.50
- 14) The distance between two stations A and B is 778 km. A train covers the journey from A to B at 84 km per hour and returns back to A with a uniform speed of 56 km per hour. Find the average speed of train during the whole journey.
- A.60.3 km/h    B.35.0 km/h    C.57.5 km/h    D.67.2 km/h
- 15) The average of 50 numbers is 30. If two numbers, 35 and 40 are discarded, then the average of the remaining numbers is nearly
- A.28.32      B.29.68      C.28.78      D.29.27
- 16) The average score of a cricketer for ten matches is 38.9 runs. If the average for the first six matches is 42, then find the average for the last four matches.
- A.33.25      B.33.5      C.34.25      D.35
- 17) A Batsman makes a score of 87 runs in the 17th inning and thus increases his average by 3. Find his average after 17th inning.
- A.40      B.39      C.52      D.55
- 18) There were 35 students in a hostel. Due to the admission of 7 new students the expenses of the mess were increased by Rs.42 per day while the average expenditure per head diminished by Re 1. What was the original expenditure of the mess?
- A.450      B.320      C.550      D.420
- 19) Nine persons went to a hotel for taking their meals. Eight of them spent Rs.12 each on their meals and the ninth spent Rs.8 more than the average expenditure of all the nine. What was the total money spent by them.
- A.115      B.116      C.117      D.118
- 20) David obtained 76, 65, 82, 67 and 85 marks (out of 100) in English, mathematics, physics, chemistry and biology. What are his average marks?
- A.65      B.69      C.75      D.NONE
- 21) The average of runs of a cricket player of 10 innings was 32. How many runs must be made in his next innings so as to increase his average of runs by 4?
- A.72      B.74      C.70      D.76