




5. Average

PART-A


Model 1

1. What is the average of the following set of numbers?
302, 152, 132, 122, 112
1) 184 2) 165 3) 152 4) 176 5) None of these
2. Find the average of the following sets of scores. 198, 309, 256, 488, 145, 326, 427
1) 307 2) 10132 3) 11320 4) 11230 5) None of these
3. If $25a + 25b = 125$, then what is the average of a and b?
1) 4.6 2) 2.5 3) 4.5 4) 3.4 5) None of these
4.  Kamlesh bought 65 books for 1050 from one shop and 50 books for 1020 from another. What is the average price he paid per book?
1) 36.40 2) 18.20 3) 24 4) 18 5) None of these
5. Sachin made 1000 runs in 20 matches. If he made 0 runs in one match, find the average runs of other matches.
1) 51.63 2) 52.53 3) 52.73 4) 52.63 5) 52.33
6. The average age of A, B and C is 26 years. If the average age of A and C is 29 years, what is the age of B in year?
1) 26 2) 20 3) 29 4) 23 5) None of these
7. A cricketer scored 180 runs in the first test and 258 runs in the second. How many runs should he score in the third test so that his average score in the three tests would be 230 runs?
1) 219 2) 242 3) 334 4) 356 5) None of these
8. Average weight of 10 boys is more than the average weight of 15 girls by 5 kg. If the total weight of the 10 boys is 550 kg, what is the average of the 10 boys and 15 girls together?
1) 52 kg 2) 52.5 kg 3) 53 kg 4) 43.5 kg 5) None of these
9. The average of 6 numbers is 8. What is the 7th number so that average becomes 10?
1) 22 2) 18 3) 21 4) 20 5) None of these


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10. The average of 5 positive integers is 436. The average of the first two numbers is 344 and the average of the last two numbers is 554. What is the third number?
 1) 482 2) 346 3) 556 4) 384 5) None of these
11. The sum of 5 numbers is 924, the average of the first two numbers is 201.5 and the average of the last two numbers is 196. What is the third number?
1) 133 2) 129 3) 122 4) Cannot be determined 5) None of these
12. The sum of 5 numbers is 555. The average of the first two numbers is 75 and the third number is 115. What is the average of the last two numbers?
1) 145 2) 290 3) 265 4) 150 5) None of these
13. The average temperature of first 3 days is 27 degrees and of the next 3 days is 29 degrees. If the average of the whole week is 28.5 degrees, what is the temperature of the last day?
 1) 31.5 2) 10.5 3) 21 4) 42 5) None of these
14. The average of 5 numbers is 306.4. The average of the first two numbers is 431 and the average of the last two numbers is 214.5. What is the third number?
1) 108 2) 52 3) 321 4) Cannot be determined 5) None of these



Model 2

15. In a class there are 32 boys and 28 girls. The average age of the boys in the class is 14 years and the average age of the girls in the class is 13 years. What is the average age of the whole class? (Rounded off to two digits after decimal)
 1) 13.50 2) 13.53 3) 12.51 4) 13.42 5) None of these
16. In a certain school, there are 60 boys of age 12 each, 40 of age 13 each, 50 of age 14 each and 50 of age 15 each. What is the average age of all the boys of the school?
1) 13.50 2) 133.1 3) 13.45 4) 14 5) None of these
17. The average age of 20 students of a section is 12 years. The average age of 25 students of another section is 12 years. What is the average age of both the sections combined together?
1) 11 2) 11.5 3) 11.75 4) Cannot be determined 5) None of these


Model 3

18.  The average age of a class of 65 boys was 14 years, the average age of 20 of them was 14 years, and that of another 15 was 12 years. Find the average age of the remaining boys?
1) 16 years 2) 13 years 3) 17 years 4) 15 years 5) None of these
19. The average monthly income of a family of four earning members was 15,130. One of the daughters in the family got married and left home, so the average monthly income of the family came down to 14,660. What is the monthly income of the married daughter?
1) 15,350 2) 12,000 3) 16,540 4) Cannot be determined 5) None of these
20. The total of the ages of class of 75 girls is 1050 years, the average age of 25 of them is 12 years and that of another 25 is 16 years. Find the average age of the remaining girls?
1) 12 years 2) 13 years 3) 14 years 4) 15 years 5) None of these

Model 4

21.  The average age of 39 students and a teacher of a Class are 11 years. If the age of teacher is excluded the average age of class is reduced by 1. What is the age of teacher?
1) 49 years 2) 39 years 3) 50 years 4) 52 years 5) None of these
22. Average weight of 11 students is 30 kg. If the average weight increases by 0.5 kg when Suresh, one of the students leaves the group, what is the Suresh's weight?
1) 28 2) 25 3) 40 4) 35 5) None of these
23.  Average age of 31 students is 11.5 years. If teacher age is included average age is increased by 1. What is the teacher's age?
1) 36 2) 35.5 3) 37 4) 43.5 5) None of these

Model 5

24.  Average temperature for a week is noted as 32°C . But later it was realized that Friday temperature reading was taken as 30°C instead of 16°C . What is the true average temperature for the week?
1) 15 2) 30 3) 10 4) 20 5) None of these

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25. The average weight of a group of 53 girls was calculated as 58 kg. It was later discovered that the weight of one of the girls was read as 65 kg, whereas her actual weight was 45 kg. What is the actual average weight of the group of the 53 girls? (rounded off to two digits after decimal)

- 1) 58.62 2) 58.37 3) 57.37 4) 57.62 5) None of these



26. The average weight of a group of 50 girls was calculated as 58 kg. It was later discovered that the weight of one of the girls was read as 45 kg, whereas her actual weight was 65 kg. What is the actual average weight of the group of the 50 girls? (rounded off to two digits after decimal)

- 1) 58.6 2) 57.6 3) 57.4 4) 58.4 5) None of these

Model 6



27. The sum of 3 consecutive even numbers is 44 more than the average of these numbers. What will be the highest of these numbers?

- 1) 16 2) 18 3) 24 4) Cannot be determined 5) None of these



28. If the average of 11 consecutive even numbers is 98, what is the highest number? 1) 72 2) 84 3) 96 4) 108 5) None of these

29. A, B, C, and D are four consecutive numbers. If the sum of A and D is 103 what is the product of B and C?

- 1) 2652 2) 2562 3) 2970 4) 2550 5) None of these



30. A, B, C and D are four consecutive even numbers respectively and their average is 65. What is the product of A and D?

- 1) 3968 2) 4216 3) 1092 4) 4352 5) None of these

31. The average of 5 consecutive odd numbers A, B, C, D and E is 47. What is the product of A and D?

- 1) 2107 2) 1935 3) 2021 4) 2193 5) None of these



32. The sum of 5 consecutive odd numbers is 575. What will be the sum of the next set of 5 consecutive odd numbers?

- 1) 625 2) 580 3) 600 4) 650 5) None of these

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33. The sum of 5 consecutive even numbers is 200. What will be the sum of the next set of 5 consecutive even numbers?

- 1) 240 2) 250 3) 300 4) 225 5) None of these

34. The average of four positive integers is 59. The highest integer is 83 and the lowest integer is 29. The difference between the remaining two integers is 28. Which of the following integers is the higher of the remaining two integers?

- 1) 34 2) 76 3) 39 4) Cannot be determined 5) None of these

35. A boy has to find the average of 25 positive integers. Each integer contains two digits. By mistake, the boy interchanges the digits of one number and finds the average 2.88 less than the real average. What is the difference between the two digits of that number?

- 1) 6 2) 8 3) 4 4) 7 5) None of these

Answers

1 - 5	2 - 1	3 - 2	4 - 4	5 - 4	6 - 2	7 - 5	8 - 1	9 - 1	10 - 4
11 - 2	12 - 1	13 - 1	14 - 5	15 - 2	16 - 3	17 - 5	18 - 4	19 - 3	20 - 3
21 - 3	22 - 2	23 - 4	24 - 2	25 - 4	26 - 4	27 - 3	28 - 4	29 - 1	30 - 2
31 - 1	32 - 1	33 - 2	34 - 2	35 - 2					

PART-B

1. The average monthly salary of 12 workers and 3 managers in a factory was Rs.600. When one of the managers whose salary was Rs.720, was replaced with a new manager, the average salary of the team went down to 580. What is the salary of the new manager?

- 1) 570 2) 420 3) 690 4) 640 5) 610

2. The average monthly salary of a group of 100 employees in a company is Rs.16,000. If the salary of 20 employees is increased by 4000 each and the salary of other did not change, what will be the new average?

- 1) Rs.20,000 2) Rs.18,000 3) Rs.16,800 4) Rs.16, 000 5) None of these

3. The average wage of a worker during a fortnight comprising 15 consecutive working days was Rs. 90/- day. During the first 7 days, his average wage was Rs. 87/day and average wage during the last 7 days was Rs. 92/day. What was his wage on 8th day?

- 1) 83 2) 92 3) 90 4) 97 5) 96

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4. The average age of a family of 5 members is 20 years. If the age of the youngest person is 10 years, then what was the average age of the family at the time of birth of youngest member?
- 1) 13.5 2) 14 3) 15 4) 12.5 5) None of these
5. Seven years ago, the average age of family of six members was 22 years. What is the present average age of the family?
- 1) 28 2) 29 3) 30 4) 32 5) None of these
6. The average of 2, 7, 6 and x is 5 and the average of 18, 1, 6, x and y is 10. What is the value of y?
- 1) 10 2) 40 3) 20 4) 25 5) None of these
7. A library has an average of 510 visitors on Sundays and 240 on other days. What will be the average number of visitors per day in a month of 30 days beginning with a Sunday?
- 1) 140 2) 320 3) 260 4) 285 5) None of these
8. A man whose bowling average is 12.4 takes 5 wickets for 26 runs and there by decreases his average 0.4. What was the number of wickets taken by him before his last match?
- 1) 60 2) 85 3) 15 4) 29 5) None of these
9. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?
- 1) 6.25 2) 5.24 3) 4.26 4) 2.22 5) None of these
10. The average weight of 8 persons increased by 2.5 kg when a new person comes in place of one of them, weighing 65 kg. What will be the weight of the new person?
- 1) 64 kgs 2) 85 kgs 3) 76 kgs 4) 92 kgs 5) None of these

Answers:

1 - 2	2 - 3	3 - 4	4 - 4	5 - 2	6 - 1	7 - 4	8 - 2	9-1	10-2
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