Averages

1. **Average:**

|  |  |  |  |
| --- | --- | --- | --- |
| Average = | http://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | Sum of items | http://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif |
| Number of items |

1. **Average Speed:**

Suppose a man covers a certain distance at *x* kmph and an equal distance at *y* kmph.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Then, the average speed during the whole journey is | http://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 2*xy* | http://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | kmph. |
| *x* + *y* |

1. The average mark obtained by 40 boys is 65 and the average mark of 20 girls is 95. What is the average mark of all the students in the class?

2. Find the average of first 40 natural numbers?

3. The average of four consecutive even numbers is 27. Find the largest of these numbers?

4. The average score of a player in 9 matches is 12. If in the 10th match his score is 24. What is his new average score?

5. The average marks of 30 students in a class is increased by 1.2 marks, when a student of marks 48 is replaced by a new student. What is the mark obtained by new student?

6. The average of 4 numbers is 13. If each number is increased by 5, what is the new average?

7. Nine persons went to a hotel for taking their meals. Eight of them spent Rs 12 each on their meals and the 9th spent Rs 8 more than the average expenditure of all the nine. What was the total money spent by them?

8. Of the three numbers, second is twice the first and is also thrice the third. If the average of three numbers is 44. Find the largest number?

9. The average of 25 results is 18. The average of first 12 of them is 14 and that of last 12 is 17. Find the 13th result?

10. The average of 11 results is 60. If the average of first 6 results is 58 and that of the last 6 is 63, find the 6th result?

11. A batsman makes a score of 87 runs in the 17th inning and thus increases his average by 3. Find the average after 17th inning?

12. Distance between two stations A and B is 778 kms. A train covers the journey from A to B at 84 kms per hour and returns back to A with a uniform speed of 56 kms per hour. Find the average speed of the train during the whole journey?

13. The average of 18 numbers is 14. While calculating the average, one number is taken as 73 instead of 37. What is the correct average?

14. Find the average of all the numbers between 6 and 34, which are divisible by 5?

15. The average weight of 8 persons increases by 2.5 kg. When a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?