

Unit 1: Numerical Applications

Averages

Date: 25/04/24

1. There are 44 boys and 36 girls in a class. The Average marks of boys are 40 and that of girls is 38. Find the average marks of the class?

2. The average of five numbers is 87. If one of the numbers is excluded, then the average gets decreased by 5. Find the excluded number.

3. A nursery is closed on Sunday. The average plants sold in the remaining six days of a week is 156 plants and the average sale from Monday to Friday is 124 plants. Find the number of plants sold on Saturday?

4. The average of five consecutive numbers is 125. Find the product of the number at the extreme positions.

5. Under MNREGA Schema 1000 new labourers are enrolled in Delhi, Earlier they were getting Rs 200 as daily wages, but now the authorities have increased the budget for them by 15 Lakh per month.
 - a) Calculate the present monthly budget of the ministry for 1000 labourers.
 - b) Find the increase in daily income due to budget increase.
 - c) Find the new Average monthly income per labour.

6. The mean of 35 observations was found to be 98.6. But later, it was found that 72 was misread as 27. Find the correct mean.

7. The average annual PF contribution of certain number of defence officers is Rs28560 and that of other officers is Rs 22500. The number of defence officers is 22 times that of other officers. Then find the average savings of all the officers in total.

8. 5 years ago, the average age of the 3 children of Mr. Pandey was 8 years. A new baby is born in the family now. Find the present average age of the family.

9. In a restaurant 35 visitors can have lunch at a time. If the number of visitors Increases by 7 then the expense of the restaurant on food increases by Rs. 42. while the average expenditure per head decreases by Rs. 1, Find the original expenditure of the restaurant.

10. The average of runs of Virat Kohli, the famous cricket player, of last 10 innings were 72. How many runs he must make in 11th Inning to increase the average by 3 runs?

11. An ant is moving around a circular path of radius 3.5 cm and takes 3 seconds to complete 1 revolution, Find the average speed and average velocity?

12. Sara walks 7.2 km in one and half hour and 3.5 km in 2 hours in the same direction. What is the Sara's average speed for the whole journey?