

Mean of tabulated data

A. Choose the correct answer:

1. The mean of a data set is also called its

- a) mode
- b) median
- c) average
- d) total

2. To find the mean of tabulated data, we divide

- a) sum of frequencies by number of values
- b) total sum of observations by total number of observations
- c) highest value by lowest value
- d) number of groups by the highest observation

3. If the total of all values is 60 and there are 5 observations, the mean is

- a) 10
- b) 12
- c) 15
- d) 20

4. The formula to find mean is

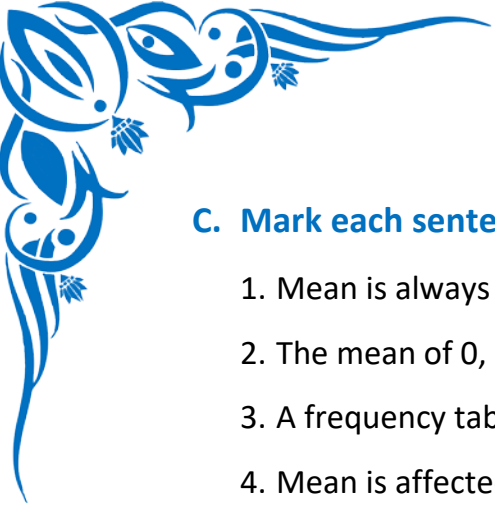
- a) $\text{mean} = \text{highest value} \times \text{lowest value}$
- b) $\text{mean} = \text{sum of observations} / \text{number of observations}$
- c) $\text{mean} = \text{frequency} / \text{total}$
- d) $\text{mean} = \text{total frequency} \times \text{class size}$

5. Which of the following is a correct example of tabulated data?

- a) Pie chart
- b) Raw list
- c) Frequency table
- d) Picture

B. Write the Missing Terms to Complete the Sentences:

1. The mean is the _____ of a set of values.
2. To calculate mean, divide the total sum by the total number of _____.
3. A table with data arranged in rows and columns is called a _____.
4. The mean of 5, 10, and 15 is _____.
5. The mean helps to find the _____ value in a data set.



C. Mark each sentence with a True (✓) or False (X):

1. Mean is always a number from the given data. _____
2. The mean of 0, 5, and 10 is 5. _____
3. A frequency table helps in organising data for mean calculation. _____
4. Mean is affected by every value in the data set. _____
5. Mean and median are always the same. _____

D. Figure out the answers to these questions:

1. Find the mean of the data: 6, 9, 12, 15, 18.
2. The frequency table shows: 2 occurs 3 times, 4 occurs 2 times, 5 occurs 1 time. Find the mean.
3. Explain how a mean value helps in summarising large data.
4. A student scored 12, 14, 16, and 18 in four tests. What is the average score?
5. Make a table showing marks of five students and calculate their mean.

E. Challenge yourself with these questions:

1. Prepare a frequency table of ages of 10 classmates and calculate the mean.
2. The mean of five numbers is 8. What is their total sum?
3. In a frequency table, how would you find the total sum of observations?
4. Create a small survey on number of siblings and calculate the average.
5. If the total of values is 72 and there are 9 values, find the mean.
6. A cricketer scores the following runs in 9 innings. 57, 75, 40, 36, 47, 46, 0, 100, 102. Find the arithmetic mean of the given data.
7. The enrollment in a school during six consecutive years was as follows: 1450, 1675, 1850, 2113, 2440, 2820. Find the arithmetic mean of the given data.