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) mean = highest value × lowest value

b) mean = sum of observations / number of observations

c) mean = frequency / total

d) mean = total frequency × 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 (✗):

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.