

Median

A. Choose the correct answer:

1. The median is the

- a) most frequent number in a data set
- b) middle value when data is arranged in order
- c) highest value in the data
- d) lowest value in the data

2. To find the median, the data must be

- a) in random order
- b) grouped
- c) arranged in ascending or descending order
- d) arranged in a pie chart

3. If the number of observations is odd, the median is

- a) the average of all values
- b) the first value
- c) the last value
- d) the middle value

4. The median of 3, 5, 7, 9, 11 is

- a) 5
- b) 7
- c) 9
- d) 11

5. The median of 10, 20, 30, 40 is

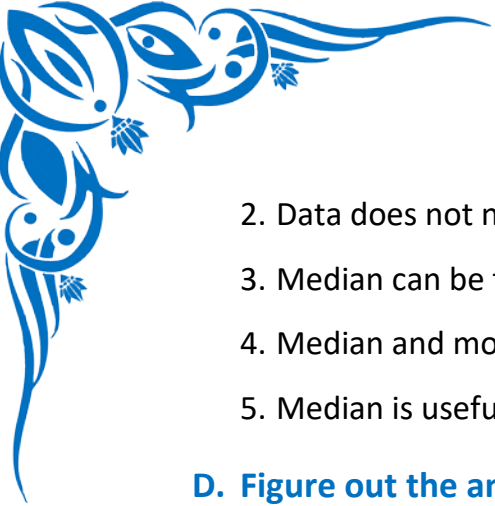
- a) 20
- b) 25
- c) 30
- d) 35

B. Write the Missing Terms to Complete the Sentences:

1. Median is the _____ value in an ordered data set.
2. Data must be arranged in _____ order before finding the median.
3. If the number of values is even, the median is the _____ of the two middle values.
4. The median of 4, 8, 10, 12, 16 is _____.
5. In a frequency table, the median is the middle value based on _____.

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

1. Median is always a value from the given data set. _____



2. Data does not need to be ordered for calculating the median. _____
3. Median can be found even if the number of observations is even. _____
4. Median and mode are always equal. _____
5. Median is useful in finding the central value. _____

D. Figure out the answers to these questions:

1. Find the median of the data set: 6, 2, 9, 3, 5.
2. A set of 6 values: 10, 15, 20, 25, 30, 35. Find the median.
3. Explain the difference between mean and median with examples.
4. Find the median of the marks obtained: 23, 34, 30, 28, 31, 29, 32.
5. Create a small data table of 7 values and calculate the median.
6. The median of the observations x , 35, 45, $(x - 1)$, 65, 75 is 50. Then find the value of x .

E. Challenge yourself with these questions:

1. Arrange the data 15, 22, 18, 20, 25 and find the median.
2. Create a frequency table for 10 students' test scores and find the median score.
3. Record the number of books read by your classmates and find the median number.
4. Explain with a daily life example where median is more useful than mean.
5. Collect five random prices of pens from a shop and find the median price.
6. The weights in kg of 15 boys of a class are given below: Find the median.
40, 42, 91, 34, 66, 84, 71, 80, 55, 50, 41, 68, 31, 56, 93
7. Find the median of the following data:
22, 28, 62, 51, 38, 34, 33, 35, 54
If 28 is replaced by 82, What will be the new median?