## QUESTION - 1

a) Compute the mean and median of the first 35 natural numbers .
b) Compute the mean and median of the first 50 even numbers .
c) Compute the mean and median of the natural numbers which leave remainder 1 on division by 2 .
d) Compute the mean and median of the first 25 terms of the arithmetic sequence 5,10 , 15 . . . .

## QUESTION -2

The weights of members in a cricket club are given (in kilograms ) below .

$$
53,40,48,55,49,45,47,56,54,52,51
$$

a) What is the mean weight ?
b) What is the median weight ?

## QUESTION - 3

The marks obtained by 10 students in the Maths exam are given below .

$$
64,39,58,80,43,37,50,76,61,72
$$

a) What is the mean mark ?
b) What is the median mark ?

## QUESTION - 4

51 households in a neighbourhood are sorted according to their monthly income in the table below .

| Monthly income (Rs ) | Number of households |
| :---: | :---: |
| 5000 | 4 |
| 5500 | 6 |
| 6000 | 8 |
| 7000 | 10 |
| 8000 | 9 |


| 8500 | 7 |
| :---: | :---: |
| 9000 | 5 |
| 9500 | 2 |

a) If the households are arranged in increasing order of monthly income, what is the monthly income of the household at the $19{ }^{\text {th }}$ position ?
b) If the households are arranged in increasing order of monthly income, the monthly income of the household at what position is taken as the median ?
c) Find the median of the monthly income .

## QUESTION - 5

The table below shows the workers in a factory sorted according to their daily wages .

| Daily wages (Rs) | Number of workers |
| :---: | :---: |
| 900 | 6 |
| 1000 | 4 |
| 1100 | 7 |
| 1200 | 8 |
| 1300 | 7 |
| 1400 | 5 |
| 1500 | 3 |

a) If the workers are arranged in increasing order of daily wage, what is the daily wage of the worker at the $18^{\text {th }}$ position ?
b) If the workers are arranged in increasing order of daily wage, the daily wage of the worker at what position is taken as the median ?
c) Find the median daily wage .

## QUESTION - 6

The table below shows the children in a class sorted according to their marks in Maths exam.

| Marks | Number of students |
| :---: | :---: |
| $0-10$ | 3 |
| $10-20$ | 5 |
| $20-30$ | 8 |
| $30-40$ | 9 |
| $40-50$ | 10 |
| $50-60$ | 7 |
| $60-70$ | 6 |
| $70-80$ | 5 |
| $80-90$ | 2 |

a) If the students are arranged in increasing order of marks, the mark of the student at what position is taken as the median ?
b) If the students are arranged in increasing order of marks , what is assumed to be the mark of the student at the $26^{\text {th }}$ position ?
c) Find the median mark .

## QUESTION - 7

71 households in a neighbourhood are sorted according to their monthly income in the table below .

| Monthly income (Rs ) | Number of households |
| :---: | :---: |
| $3000-4000$ | 8 |
| $4000-5000$ | 10 |
| $5000-6000$ | 20 |
| $6000-7000$ | 12 |
| $7000-8000$ | 8 |
| $8000-9000$ | 5 |

a) If the households are arranged in increasing order of monthly income, the monthly income of the household at what position is taken as the median ?
b) If the households are arranged in increasing order of monthly income, what is assumed to be the monthly income of the household at the $19^{\text {th }}$ position ?
c) Find the median of the monthly income .

The table shows some households sorted according to their usage of electricity .

| Electricity usage <br> ( units ) | Number of households |
| :---: | :---: |
| $80-90$ | 4 |
| $90-100$ | 4 |
| $100-110$ | 5 |
| $110-120$ | 5 |
| $120-130$ | 6 |
| $130-140$ | 6 |

a) If the households are arranged in increasing order of usage of their electricity , half the sum of the usage of the households at what positions are taken as the median ?
b) If the households are arranged in increasing order of usage of their electricity what is assumed to be the usage of the household at the $14^{\text {th }}$ position ?
c) Find the median usage .

