

St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi–110092

Session: 2024 – 25 Worksheet

Class: VII

Subject: Mathematics

**Topic: Data
Handling**

Worksheet - 22

Do as directed:

Q1: Aastha studies for 4 hours, 5 hours and 3 hours respectively on three consecutive days. How many hours does she study daily on an average?

Q2: The scores in mathematics test (out of 25) of 15 students is as follows: 19, 25, 23, 20, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20 Find the mode and median of this data.

Q3: The mean of a group of data is 60. If the data are 85, 62, 36, 48, 72, x, 75 and 39. Find the value of x.

Q4: The heights of 10 girls were measured in cm, and the results are as follows: 135, 150, 139, 128, 151, 132, 146, 149, 143, 141.

(i) What is the height of the tallest girl? (ii) What is the height of the shortest girl?

(iii) What is the range of the data? (iv) What is the mean height of the girls?

(v) How many girls have heights more than the mean height?

Q5: Number of children in six different classes is given below. Represent the data on a bar graph.

| Class | Fifth | Sixth | Seventh | Eighth | Ninth | Tenth |
|--------------------|-------|-------|---------|--------|-------|-------|
| Number of Children | 135 | 120 | 95 | 100 | 90 | 80 |

(a) What would you choose for a scale?

(b) Answer the following questions:

(i) Which class has the maximum number of children? And the minimum?

(ii) Find the ratio of students of Class six to the students of Class eight.

Q6: Which observation in the following data has maximum frequency? 1, 1, 2, 4, 3, 2, 1, 2, 2, 4

Q7: Find the mean of the first ten old natural number.

Q8: The runs scored in a cricket match by 11 players are as follows: 6, 15, 120, 50, 100, 80, 10, 15, 8, 10, 15 Find the mean, mode and median of this data. Are the three same?

Q9: The performance of a student in the 1st Term and 2nd Term is given. Draw a double bar graph by choosing an appropriate scale and answer the following:

| Subject | English | Hindi | Maths | Science | S. Science |
|---------------------------------|---------|-------|-------|---------|------------|
| 1 st Term (M.M. 100) | 67 | 72 | 88 | 81 | 73 |
| 2 nd Term (M.M. 100) | 70 | 65 | 95 | 85 | 75 |

(i) In which subject has the child improved his performance the most?

(ii) In which subject is the improvement the least?

(iii) Has the performance gone down in any subject?

Q10: Find the mean and median of first five prime numbers.