## Unit 10 : Data Analysis and Probability

## Friendly Notes

## Organizing and Analyzing Data

The results of surveys can be organized in different ways to help us analyze the data more easily. For example, we can organize the data from the least value to the largest value or we can use a line plot to present the data. The middle number of a set of data is called the median. The value that appears most often in a set of data is the mode of the data. There can be more than one mode.

A survey was conducted to find the number of fruits 20 students eat in a day. The data collected is recorded in the tally chart.

| Number of fruits eaten | Tally |
| :---: | :---: |
| 0 | $/ / / /$ |
| 1 | $/ / / / /$ |
| 2 | $/ / / / /$ |
| 3 | $/ / /$ |

We organize the data from least to most.
$0,0,0,0,1,1,1,1,1,1,2,2,2,2,2,2,2,3,3,3$
middle
numbers
Median $=\frac{1+2}{2}=1.5$
Mode $=2$
The data is shown on a line plot as follows:


Number of fruits eaten

