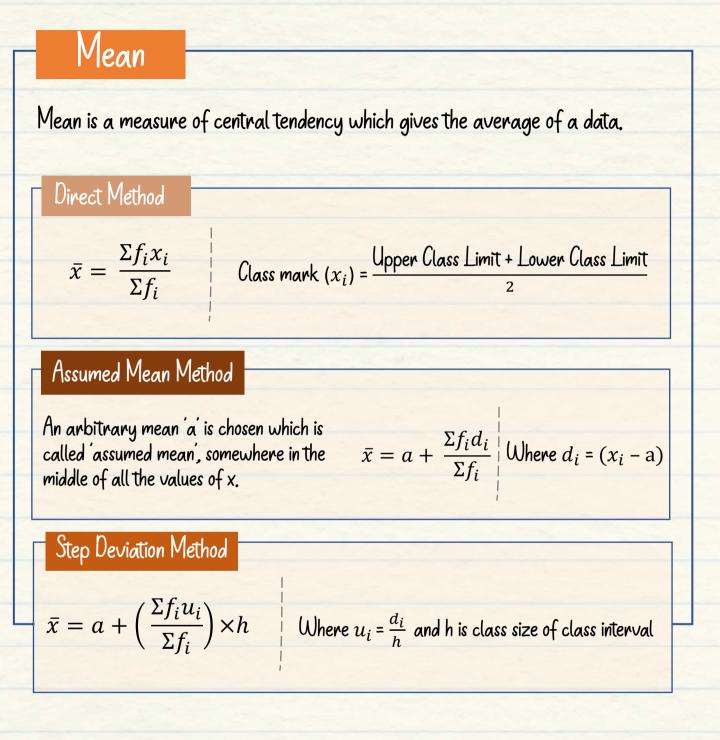






Mean of Grouped Data





Cumulative Frequency

Cumulative frequency is the sum of all the frequencies up to the current point.

Marks	Number of students	Marks	Cumulative frequency
0–10	5	Less than 10	5
10-20	3	Less than 20	5 + 3 = 8
20-30	4	Less than 30	8 + 4 = 12
30-40	3	Less than 40	12 + 3 = 15

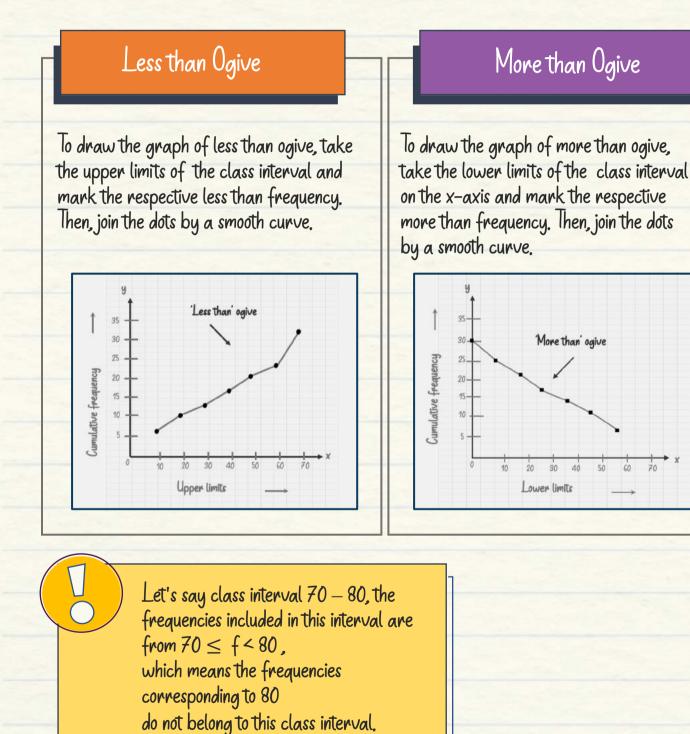
More-than type cumulative frequency table

Marks	Number of students	Marks	Cumulative frequency
0-10	5	More than or equal to O	5
10-20	3	More than or equal to 10	15 - 5 = 10
20-30	4	More than or equal to 20	10 - 3 = 7
30-40	3	More than or equal to 30	7 - 4 = 3



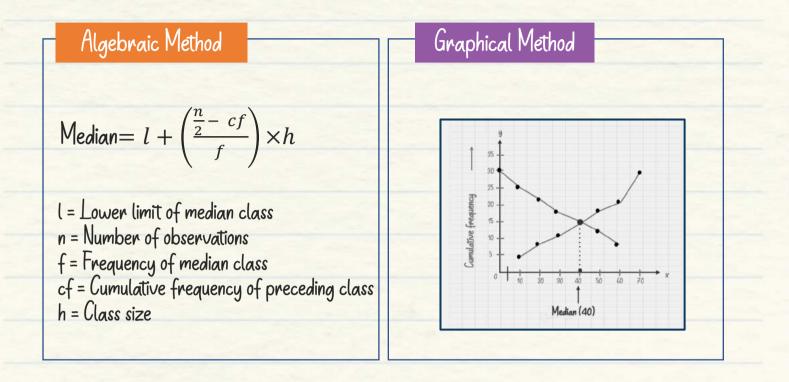
70

Graphical Representation of Cumulative Frequency Distribution



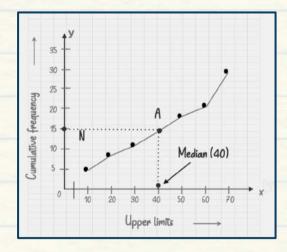


Median of Grouped Data

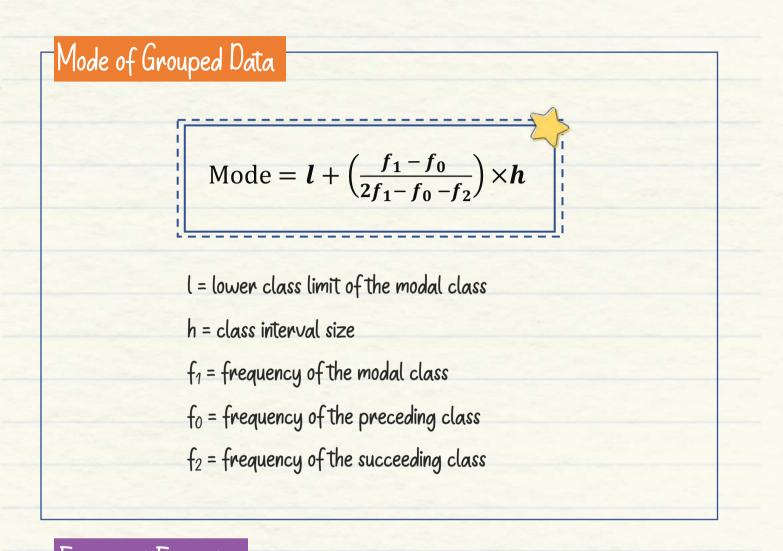


Median can be obtained by either the less than type or more than type ogive. The given methodology is applicable for both, i.e., less than or more than ogive.

- 1. Find the middle point of total number of cumulative frequency of the given dataset and mark it as N on the y-axis.
- 2. From N, draw a line parallel to X axis to intersect the ogive at point A.
- 3. Drop a perpendicular from A on X axis. This value will represent the median.







Empirical Formula

