

Particulars	Simple Data	Grouped data OR Grouped & Classified Data
1. A.M.	$\frac{\sum x}{n}$	$\frac{\sum fx}{\sum f} = \frac{\sum lx}{N}$
2. G.M.	$(x_1 \cdot x_2 \cdot x_3 \dots x_n)^{\frac{1}{n}}$	$(x_1^{f_1} \cdot x_2^{f_2} \cdot x_3^{f_3} \dots x_n^{f_n})^{\frac{1}{N}}$
3. H.M.	$\frac{n}{\sum \frac{1}{x}}$	$\frac{\sum f}{\sum (f/x)}$
4. Median	$\left[\frac{1}{2} (n+1) \right]^{\text{th}} \text{ term}$	$LCB + \left[\frac{\frac{1}{2} (N) - N_1}{N_u - N_1} \times C \right]$
5. Mode	observation having highest frequency	$LCB + \left[\frac{f_0 - f_{-1}}{2f_0 - f_{-1} - f_1} \times C \right]$
6. D_8	$\left[\frac{8}{10} (n+1) \right]^{\text{th}} \text{ term}$	$LCB + \left[\frac{\frac{8}{10} N - N_1}{N_u - N_1} \times C \right]$
7. Q_1	$\left[\frac{1}{4} (n+1) \right]^{\text{th}} \text{ term}$	$LCB + \left[\frac{\frac{1}{4} N - N_1}{N_u - N_1} \times C \right]$
8. P_{31}	$\left[\frac{31}{100} (n+1) \right]^{\text{th}} \text{ term}$	$LCB + \left[\frac{\frac{31}{100} N - N_1}{N_u - N_1} \times C \right]$