PERCENTILES :

Percentiles : Are the values of the variate which divide the total frequency into 100 equal parts. Thus,

first percentile : $P_1 = l + \frac{\frac{N}{100} - F}{f} \times i$ or

$$l + \frac{i}{f}\left[\frac{N}{100}\right]$$

$P_1 \Rightarrow l + \left(\frac{i}{f}\right)\left[\frac{N}{100} - F\right]$ P_{37} $\left(\frac{37N}{100}\right)$

Second Percentile : $P_{(2)} = l + \frac{i}{f}\left[\frac{2N}{100} - F\right]$ $P_{(37)}$ $\frac{37 \times N}{100}$

$\frac{55 \times N}{100}$

where l : Lower limit of median class
f = frequency " " "
i = width " " "