

Featured software

Distillation simulator	www.vaxasoftware.com/soft_eduen/sden.html
FunGraph - Graphs of mathematical functions	www.vaxasoftware.com/soft_eduen/fungraph.html
Design of distillation columns by McCabe-Thiele method	www.vaxasoftware.com/soft_eduen/mcth.html
Worksheets Generators for Maths and Chemistry	www.vaxasoftware.com/pc/index.html
Acid-base equilibrium calculator	www.vaxasoftware.com/soft_eduen/abew.html
Statistics and Probabilty tools for Windows	www.vaxasoftware.com/soft_eduen/statool.html

Mean	$\bar{x} = \frac{\sum x_i f_i}{N}, \quad N = \sum f_i \quad \text{Number of values}$
Standard deviation	$\sigma = \sqrt{\frac{\sum x_i^2 f_i}{N} - \bar{x}^2}$
Percentiles	$P_k = L + a \frac{\frac{k \cdot N}{100} - F_{i-1}}{f_i}$
Deciles	$D_k = L + a \frac{\frac{k \cdot N}{10} - F_{i-1}}{f_i}$
Quartiles	$Q_k = L + a \frac{\frac{k \cdot N}{4} - F_{i-1}}{f_i}$
Median	$Me = L + a \frac{\frac{N}{2} - F_{i-1}}{f_i}, \quad Me = P_{50} = D_5 = Q_2$
Mode	$Mo = L + a \frac{\Delta_1}{\Delta_1 + \Delta_2} \quad \Delta_1 = f_i - f_{i-1}, \quad \Delta_2 = f_i - f_{i+1}$

- L Lower limit of relevant class interval
- a Amplitude of relevant class interval
- F_{i-1} Cumulative frequency of relevant class interval
- f_i Frequency of relevant class interval
- f_{i-1} Frequency of previous class of relevant class interval
- f_{i+1} Frequency of next class of relevant class interval