arithmetic mean (average)

The sum of a series of observations divided by the number of observations. Symbol: \( \bar{x} \). It can be calculated by the formula:

\[
\bar{x} = \frac{\sum x_i}{n}
\]

Note:
All summations are taken from 1 to \( n \). Note that the arithmetic mean is an unbiased estimate of the population mean, i.e. \( \mu \) is the limiting value for \( \bar{x} \), as \( n \to \infty \).

Source:
PAC, 1994, 66, 595 (Nomenclature for the presentation of results of chemical analysis (IUPAC Recommendations 1994)) on page 599