

https://en.wikipedia.org/wiki/Standard score

z-score (Standard Score)

In statistics, the **z-score** (also known as the **standard score**) is the number of **standard deviations** that an observed value or data point falls above or below the **mean** value of what is being observed or measured.

Data values above the mean have **positive z-scores**, while data values below the mean have **negative z-scores**.

A **z-score** is calculated by subtracting the population mean from an individual data value and then dividing the difference by the population standard deviation.

This process of converting a data value into a z-score is called **standardizing** or **normalizing** (however, "normalizing" can refer to many types of ratios).

z-scores are also called **standard scores**; the two terms may be used interchangeably, as they are in this article. Other terms include **z-values**, **normal scores**, and **standardized variables**.

NOTE: This article has been modified.