

z-Score

(Definition)

The number of standard deviations an element is away from the mean

$$\text{z-score (z)} = \frac{x - \mu}{\sigma}$$

where x is an element of the data set, μ is the mean of the data set, and σ is the standard deviation of the data set.

Example: Data set A has a mean of 83 and a standard deviation of 9.74. What is the z-score for the element 91 in data set A?

$$z = \frac{91-83}{9.74} = 0.821$$

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(Graphic)

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