#### CONFIDENCE

[Syntax](Syntax.docx):

CONFIDENCE ( alpha , standard-dev , size )

Description: Computes a value that can be used to construct a confidence interval for a population mean.

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| alpha | number | The significance level used to compute the confidence level. |
| standard-dev | number | The population standard deviation for the data range. |
| size | number | The sample size, truncated to an integer. |

Return Type and Value: number – A value that can be used to construct a confidence interval for a population mean.

However, if

* alpha ≤ 0 or alpha ≥ 1, #NUM! is returned.
* standard-dev ≤ 0, #NUM! [is](is.docx) returned.
* size < 1, #NUM! [is](is.docx) returned.

[Example:

CONFIDENCE(0.4,5,12) results in 1.214775614
CONFIDENCE(0.75,9,7) results in 1.083909234

end example]