

STDEVA function - The function of estimating standard deviations based on a sample including both text and logical values ??in Excel

STDEVA function: The function of estimating standard deviations based on a sample including both text and logical values. Standard deviation is a measure of the dispersion of a value against the mean. Syntax: STDEVA (value1, [value2], ...)

The following article introduces you to the **STDEVA** function - one of the functions in the statistical function group is very popular in Excel.

Hàm STDEVA

Description: The function of estimating standard deviations based on a sample includes both text and logical values. Standard deviation is a measure of the dispersion of a value against the mean.

Syntax: STDEVA (value1, [value2], .)

Inside:

- **value1**, [value2], **..** are the values ??you want to calculate the standard deviation, where **value1** is the required parameter, the remaining parameters are optional and contain up to 254 **value** parameters .

Attention:

- The **STDEV.S** function assumes that its arguments are a sample of the set.
- Standard deviation calculated using the method '**n -1**'.
- Arguments can be numbers, names or arrays that contain numbers.
- The logical value with **True** is 1 default, **false** value is 0 default.
- If the argument is an array or a reference, only values ??in that array are used.
- Function error occurs when arguments are text or error values ??cannot be converted.

- If you do not want to calculate both logical values and text -> use the **STDEV** function .

- **STDEVA** equation uses the formula:

$$\left[\sqrt{\frac{\sum \left\{ \left(x - \overline{x} \right)^2 \right\}}{n - 1}} \right]$$

Inside:

+ **x** is the sample mean **AVERAGE** (number1, number2, .)

+ **n** is the sample size.

For example:

Calculate the standard deviation based on a sample of the values in the following data table:

STT	Tham số	Giá trị
1	number1	120
2	number2	abc
3	number3	134
4	number4	TRUE
5	number5	164
6	number6	128
7	number7	130

Độ lệch chuẩn dựa trên mẫu của tập dữ liệu trên là:

- In the cell to calculate enter the formula : = **STDEVA** (D6: D12)

Hàm STDEVA trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	120
2	number2	abc
3	number3	134
4	number4	TRUE
5	number5	164
6	number6	128
7	number7	130
Độ lệch chuẩn dựa trên mẫu của tập dữ liệu trên là:		=STDEVA(D6:D12)

- Press **Enter** -> standard deviation based on a sample of the above values ??is:

Hàm STDEVA trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	120
2	number2	abc
3	number3	134
4	number4	TRUE
5	number5	164
6	number6	128
7	number7	130
Độ lệch chuẩn dựa trên mẫu của tập dữ liệu trên là:		67.16

Here the logical value is still calculated with its corresponding value.

- Where all values ??are logical or text values ??-> function returns results:

Hàm STDEVA trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	FALSE
2	number2	FALSE
3	number3	FALSE
4	number4	abc
5	number5	TRUE
6	number6	TRUE
7	number7	TRUE
Độ lệch chuẩn dựa trên mẫu của tập dữ liệu trên là:		0.53

Above are instructions and some specific examples when using the **STDEVA** function in Excel.

Good luck!

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