

# VAR function - The function of estimating variance based on a sample in Excel

VAR function: The function performs an estimate of the latter based on a sample from a given set. Function arguments can be numbers, names or arrays, or references containing numbers.

The following article shows in detail how to use the VAR function, the function of estimating variance based on a sample.

**Description:** The function performs an estimate of the latter based on a sample from a given set. Function arguments can be numbers, names or arrays, or references containing numbers.

**Syntax :** VAR (number 1, [number 2], .) .

Inside:

- **number 1** : The first numeric argument corresponding to the overall sample, is a required parameter.
- **[number 2], .** : Are numerical arguments from 2 -> 255 corresponding to a sample of the set, which is an optional parameter.

**Attention:**

- Because the **VAR** function assumes that the arguments are a sample of the population, if the data is a collection then use the **VARP** function to calculate variance.
- Function arguments can be numbers, names, arrays, or references that contain numbers.
- Where arguments are arrays or references of new values ??or references are counted while logical values, text, and blank values ??are ignored.
- Arguments that are text or error values ??that return an error value because they cannot be converted to numeric types.
- If you want to use logical values ??and present numeric text into a reference to calculate need to use additional **VARPA** function .
- Equation of the **VAR** function :

$$\frac{\sum (x - \bar{x})^2}{(n - 1)}$$

Inside:

-  $\bar{x}$  is the sample mean AVERAGE (number 1, number 2, ..).

- n is the sample size.

**For example:**

Calculate the value of the **VAR** function with the following parameters:

STT	Tham số	Giá trị tham số
1	số 1	16
2	số 2	50
3	số 3	37
4	số 4	92
Giá trị hàm VAR		?

ThuThuatPhanMem.vn

In the cell to calculate enter the formula: = **VAR (D6, D7, D8, D9)** .

**Cách sử dụng hàm WEIBULL trong Excel**

STT	Tham số	Giá trị tham số
1	số 1	16
2	số 2	50
3	số 3	37
4	số 4	92

Giá trị hàm VAR =VAR(D6,D7,D8,D9)

Press **Enter** -> **VAR** result value is:

**Cách sử dụng hàm WEIBULL trong Excel**

STT	Tham số	Giá trị tham số
1	số 1	16
2	số 2	50
3	số 3	37
4	số 4	92

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Where the parameter is a blank value or not a numeric form -> parameter is ignored:

**Cách sử dụng hàm WEIBULL trong Excel**

STT	Tham số	Giá trị tham số
1	số 1	16
2	số 2	37
3	số 3	abc
4	số 4	

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Above is how to use and some notes when using the **VAR** function , hope to help you.

Good luck!

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