

# VAR.P function - Function that calculates variance based on the entire set, ignoring logical values ??and text in Excel

VAR.P function: Function that calculates variance based on the entire set, ignoring logical values ??and text. Support functions from Excel 2010 onwards. Syntax: VAR.P (number1, [number2], ...)

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

## Hàm VAR.P

**Description:** The function performs calculation of variance based on the entire population, ignoring logical values ??and text. Support functions from Excel 2010 onwards.

**Syntax:** VAR.P (number1, [number2], .)

Inside:

- **number1, [number2], .):** The arguments in the whole need to calculate the variance, where **number1** is the required argument, the next arguments are optional and contain up to 254 **number** arguments .

**Attention:**

- The **VAR.P** function assumes that its arguments are whole.
- Arguments can be numbers, names or arrays that contain numbers.
- If the argument is an array or a reference, only values ??in that array are used.
- When typing logical values ??and presenting numeric values ??into function arguments -> these values ??are still calculated.
- Function error occurs when arguments are text or error values ??cannot be converted.

- If you want to calculate both logical values ??and text -> use **VARPA** function .

- The equation to calculate the **VAR.P** function is:

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

Inside:

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

+ **n** is the sample size.

**For example:**

Calculate variance based on the entire set of number values ??in the following data table:

The screenshot shows an Excel spreadsheet with the following content:

Hàm VAR.P trong Excel			
Nhóm hàm thống kê			
STT	Tham số	Giá trị	
1	number1	12	
2	number2	3	
3	number3	41	
4	number4	19	
5	number5	63	
Phương sai dựa trên toàn bộ tập hợp của các giá trị number là:		?	

At the bottom of the spreadsheet, there is a watermark: **ThuThuatPhanMem.vn**

- In the cell to calculate enter the formula : = **VAR.P** (**D6: D10**)

Hàm VAR.P trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	12
2	number2	3
3	number3	41
4	number4	19
5	number5	63

Phương sai dựa trên toàn bộ tập hợp của các giá trị number là: **=VAR.P(D6:D10)**

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- Press **Enter** -> variance based on the entire set of number values ??is:

Hàm VAR.P trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	12
2	number2	3
3	number3	41
4	number4	19
5	number5	63

Phương sai dựa trên toàn bộ tập hợp của các giá trị number là: **471.04000**

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-Where the values ??are text or logic -> the function ignores these values:

STT	Tham số	Giá trị
1	number1	TRUE
2	number2	3
3	number3	abc
4	number4	19
5	number5	63
Phương sai dựa trên toàn bộ tập hợp của các giá trị number là:		643.55556

Above are instructions and some specific examples when using **VAR.P** function in Excel.

Good luck!

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