

# VAR.S function - Function that calculates variance based on a sample, ignoring logical values ??and text in Excel

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

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

## Hàm VAR.S

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

**Syntax:** VAR.S (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.S** function assumes that its arguments are a sample of the population.
- 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 **VARA**.

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

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

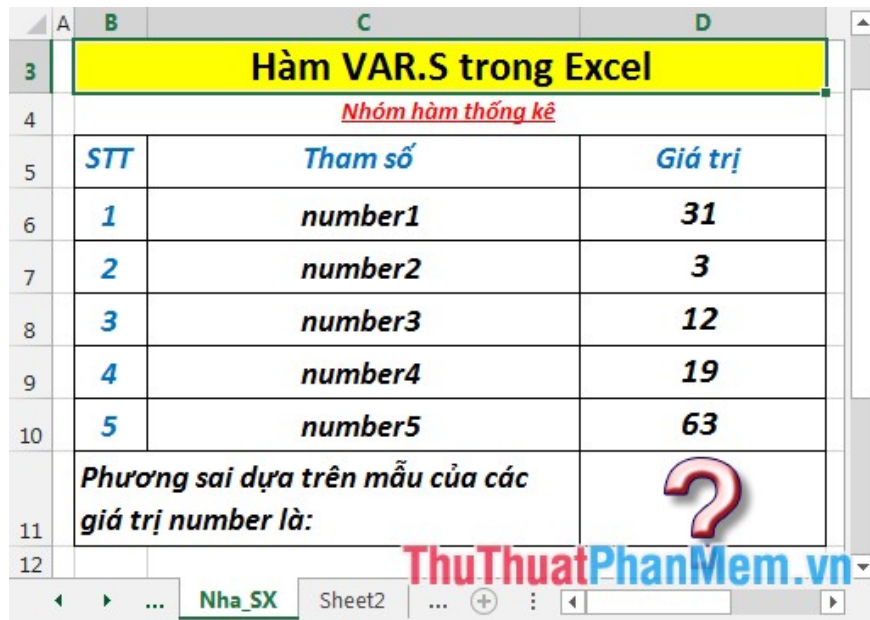
Inside:

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

+ **n** is the sample size.

**For example:**

Calculate variance based on a sample of number values ??in the following data table:



Hàm VAR.S trong Excel			
<i>Nhóm hàm thống kê</i>			
STT	Tham số	Giá trị	
1	number1	31	
2	number2	3	
3	number3	12	
4	number4	19	
5	number5	63	
Phương sai dựa trên mẫu của các giá trị number là:			?

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

Hàm VAR.S trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	31
2	number2	3
3	number3	12
4	number4	19
5	number5	63

Phương sai dựa trên mẫu của các giá trị number là: **=VAR.S(D6:D10)**

- Press **Enter** -> variance based on a sample of number values ??is:

Hàm VAR.S trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	31
2	number2	3
3	number3	12
4	number4	19
5	number5	63

Phương sai dựa trên mẫu của các giá trị number là: **541.80**

-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 mẫu của các giá trị number là:		965.33

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

Good luck!

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