

# VARPA function - Function that calculates variance based on the entire set, including logical values ?? and text in Excel

VARPA function: Function that calculates variance based on the entire set, including logical values ??and text.  
Syntax: VARPA (value1, [value2], ...)

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

## Hàm VARPA

**Description:** The function performs calculation of variance based on the entire population, including logical values ??and text.

**Syntax:** VARPA (value1, [value2], .)

Inside:

- **value1**, [value2], .: The arguments in the whole need to calculate the variance, where **value1** is the required argument, the next arguments are optional and contain up to 254 **value** arguments .

**Attention:**

- The **VARPA** function assumes that its arguments are an entire 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.
- **True** value is 1 default, **false** value is 0 default.
- 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 **VARP** function .

- The equation to calculate the **VARA** function is:

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

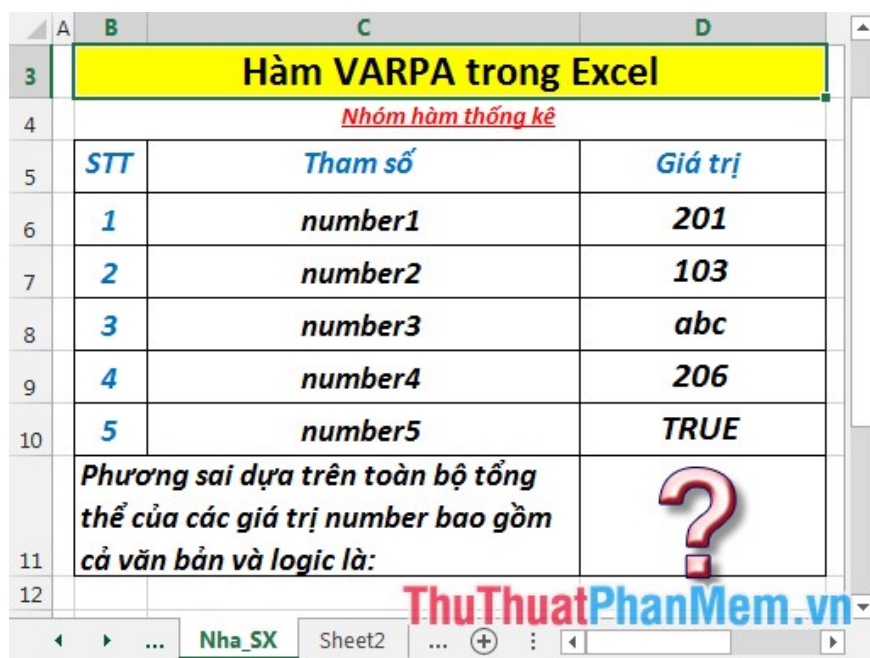
Inside:

+ **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:



Hàm VARPA trong Excel			
<i>Nhóm hàm thống kê</i>			
STT	Tham số	Giá trị	
1	number1	201	
2	number2	103	
3	number3	abc	
4	number4	206	
5	number5	TRUE	
Phương sai dựa trên toàn bộ tổng thể của các giá trị number bao gồm cả văn bản và logic là:			?

- In the cell to calculate enter the formula : = **VARPA** (D6: D10)

Hàm VARPA trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	201
2	number2	103
3	number3	abc
4	number4	206
5	number5	TRUE

Phương sai dựa trên toàn bộ tổng thể của các giá trị number bao gồm cả văn bản và logic là: **=VARPA(D6:D10)**

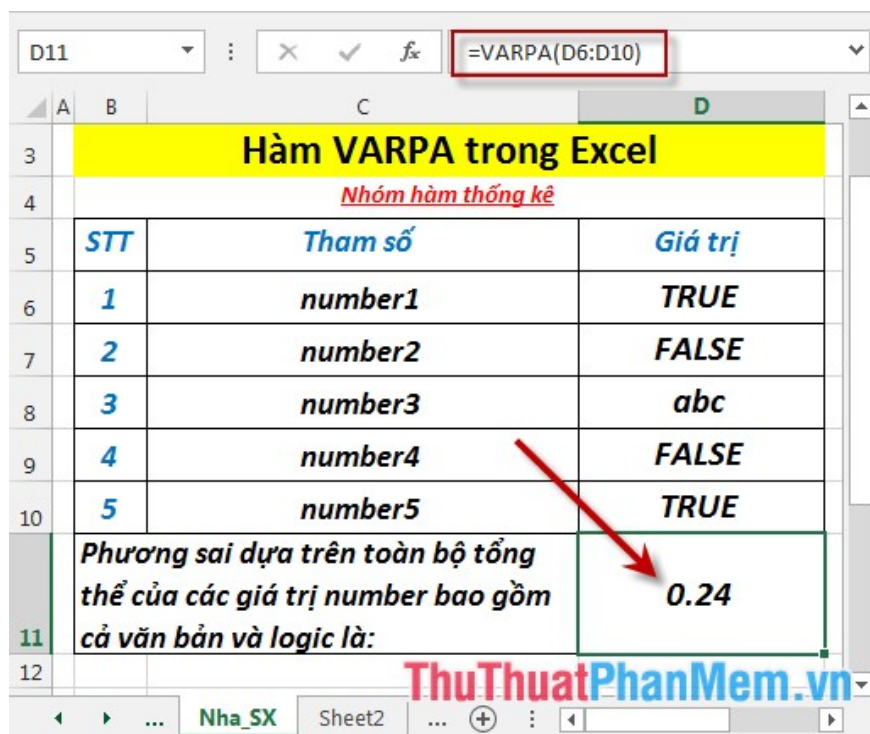
- Press **Enter** -> variance based on the entire set of number values ??is:

Hàm VARPA trong Excel		
<i>Nhóm hàm thống kê</i>		
STT	Tham số	Giá trị
1	number1	201
2	number2	103
3	number3	abc
4	number4	206
5	number5	TRUE

Phương sai dựa trên toàn bộ tổng thể của các giá trị number bao gồm cả văn bản và logic là: **8244.56**

- Here the calculated logical values ??correspond to its default values.

-Where all numeric values ??are text or logic -> the function still calculates and returns the result:



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

Good luck!

You finished reading the article "**VARPA function - Function that calculates variance based on the entire set, including logical values ??and text in Excel**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.