

Random function in Excel (RAND function), how to use the Random function and examples

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You need to get a random value in a range of values. To avoid duplicate values and objectivity, you should use the **Rand ()** function . The following article introduces the **Rand** function () in detail - **the usage and examples of the Rand () function application in Excel.**



Random function description

The **RAND ()** function returns a random real number. It can be a real number greater than zero or less than any number, even if it is an alphabet letter.

Random function syntax

RAND ()

- The function **Rand ()** is a function that does not contain a return value parameter and will be random numbers in the range of 0 to 1.

- Want to get random values in any range, for example, values greater than 0 and less than n execute the following statement: = **RAND () * n**

- You want to get random values greater than or equal to n and less than m to execute the command: = **RAND () * (m-n) + n**

Note when using the Random function

- **RAND ()** function is a function that returns random values and this value will change every time you update or reopen the spreadsheet.

- In case you want to save the first value of the **RAND ()** function, do not want to change that value, you just need to press **F5** and then press **Enter** the first value the **RAND ()** function will be saved permanently.

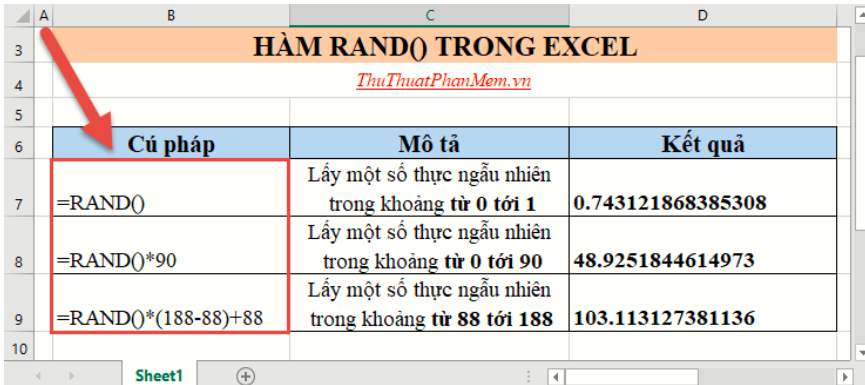
Example of the Random function

Example 1: Using the **RAND ()** function performs the following requirements:

- Get a random number between 0 and 1.
- Get a random number between 0 and 90
- Get a random number between 88 and 188

Making:

- Get a random number using the syntax = **RAND ()**
- Get a random number between 0 and 90: = **RAND () * 90**
- Get a random number between 88 and 188: = **RAND () * (188-88) +88**



Cú pháp	Mô tả	Kết quả
=RAND()	Lấy một số thực ngẫu nhiên trong khoảng từ 0 tới 1	0.743121868385308
=RAND()*90	Lấy một số thực ngẫu nhiên trong khoảng từ 0 tới 90	48.9251844614973
=RAND()*(188-88)+88	Lấy một số thực ngẫu nhiên trong khoảng từ 88 tới 188	103.113127381136

Example 2: Using the **RAND ()** function, get a random number with n digits.

To get a random number using the **RAND ()** function do the following:

- First, use the formula to get a random number in a range and use the **Int ()** function to get the integer part of that random number.

- Second, to fix the number of digits of the random number to be taken, we set $n = 10^{(x-1)}$ and $m = 10^x$ where x is the number of digits of the random number to be taken. For example, take a 4-digit random number using the formula: **= INT (RAND () * (10000-1000) +1000)**

So, applying the above formula, we have the data table to get random numbers with x digits:

Mô tả	x	n	m	Cú pháp	Kết quả
Lấy một số thực ngẫu nhiên có 3 chữ số	3	10^2	10^3	=INT(RAND()* (1000-100)+100)	281
Lấy một số thực ngẫu nhiên có 5 chữ số	5	10^4	10^5	=INT(RAND()* (100000-10000)+10000)	19430
Lấy một số thực ngẫu nhiên có 7 chữ số	7	10^6	10^7	=INT(RAND()* (10000000-1000000)+1000000)	7905762

Example 3: Using the RAND () function to get any character in the alphabet

- As you know, the alphabet has 26 letters => use the **RAND ()** function to take any integer between 0 and 26 => use the formula: **= INT (RAND () + 26 + 1)**

- In ANSI encoding, capital letters from **65 to 90** => to get lowercase letters use the formula: **= CHAR (INT (RAND () * 26 + 1) +64)**

- With lowercase letters in ANSI charset from **97 to 122** => to get lowercase letters using the formula: **= CHAR (INT (RAND () * 26 + 1) +96)**

Applying the above formula, we have a data table that takes uppercase and uppercase characters:

Mô tả	Cú pháp	Kết quả
Lấy ký tự bất kì trong bảng chữ cái		
Lấy ký tự IN HOA bảng chữ cái	=CHAR(INT(RAND()*26+1)+64)	S
Lấy ký tự IN THƯỜNG bất kì trong bảng chữ cái	=CHAR(INT(RAND()*26+1)+96)	w

Above is the description and how to use the **Rand ()** function to get random values ??in Excel hoping to help you. Good luck!

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