

PROB function - The function returns the probability that values ??in a range are between two limits in Excel

PROB function: The function returns the probability that values ??in a range are between two limits. Syntax: PROB (x_range, prob_range, [lower_limit], [upper_limit])

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

Hàm PROB

Description: The function returns the probability that values ??in a range are between two limits.

Syntax: PROB (x_range, prob_range, [lower_limit], [upper_limit])

Inside:

- **x_range:** the range of numerical values ??of x with probability associated with it, which is a required parameter .
- **prob_range:** A set of probabilities associated with the values ??in x_range, is a required parameter.
- **lower_limit:** The lower **bound** of the value you want to calculate probability.
- **upper_limit:** Close on the option of the value you want to calculate probability.

Attention:

- If any value in Prob_name is not equal to 1 or has a value greater than 1 or less than or equal to 0 -> the function returns the #NUM! Error value !
- If upper_limit parameter is omitted -> function returns with probability lower_limit
- If x_range and prob_range have different data points -> the function returns the # N / A error value

For example:

Calculate **Prob** probability with the data described in the table below:

x_range	prob_range	lower_limit	uper_limit	Giá trị hàm Prob
0	0.2	2		
1	0.3	1	3	
2	0.1	6	8	
3	0.4	1	4	

- In the cell to calculate the probability of entering the formula : = **PROB** (\$ B \$ 6: \$ B \$ 9, \$ C \$ 6: \$ C \$ 9, **D6**) (Here use the absolute address)

x_range	prob_range	lower_limit	uper_limit	Giá trị hàm Prob
0	0.2	2		=PROB(\$B\$6:\$B\$9, \$C\$6:\$C\$9,D6)
1	0.3	1	3	
2	0.1	6	8	
3	0.4	1	4	

- Press **Enter** -> copy the formula for the remaining values:

F6 `=PROB(B6:B9,C6:C9,D6)`

Hàm Prob trong Excel
Nhóm hàm thống kê

x_range	prob_range	lower_limit	uper_limit	Giá trị hàm Prob
0	0.2	2	3	0.1
1	0.3	1	3	0.3
2	0.1	6	8	0
3	0.4	1	4	0.3

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- Case 1 of the values ??in prob_range is greater than 1 or less than 0 => The function returns the #NUM! Error value

Hàm Prob trong Excel
Nhóm hàm thống kê

x_range	prob_range	lower_limit	uper_limit	Giá trị hàm Prob
0	-0.2	2	3	#NUM!
1	2	1	3	#NUM!
2	0.1	6	8	#NUM!
3	0.4	1	4	#NUM!

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Above are instructions and some specific examples when using the **Prob** function - the function returns the probability of values ??in a range between two limits in Excel.

Good luck!

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