

HARMEAN function - The function returns the harmonic average of a data set in Excel

HARMEAN function: The function returns the harmonic mean of a dataset, the harmonic mean is the reciprocal of the arithmetic mean of the reciprocals. Syntax: HARMEAN (number1, [number2], ...)

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

Hàm HARMEAN

Description: The function returns the harmonic mean of a dataset, the harmonic mean is the reciprocal of the arithmetic mean of the reciprocals.

Syntax: HARMEAN (number1, [number2], .)

Inside:

- **number1, [number2], .)** : The values ??you want to calculate the harmonic mean value, where **number1** is the required parameter, the remaining values ??are optional and contain up to 255 **number** parameters .

Attention:

- Note: harmonic average
- Arguments can be numbers, names or arrays that contain numbers.
- When typing logical values ??or textual numbers directly -> these values ??are still counted.
- If the reference argument or array contains logical values ??or text -> these values ??are ignored, but a value of 0 is still counted.
- The value of the argument is a text or an error value that cannot be converted. The function will report an error.
- If any data point ? 0 -> the function returns the **#NUM!** Error value
- The average harmonic equation is:

$$\frac{1}{H_y} = \frac{1}{n} \sum \frac{1}{Y_i}$$

For example:

Calculate the harmonic mean of **number** values in the following data table:

STT	Number	Giá trị
1	number1	9
2	number2	11
3	number3	27
4	number4	19
5	number5	36

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

STT	Number	Giá trị
1	number1	9
2	number2	11
3	number3	27
4	number4	19
5	number5	36

- Press **Enter** -> harmonic average of **number** values is:

STT	Number	Giá trị
1	number1	9
2	number2	11
3	number3	27
4	number4	19
5	number5	36
Trung bình điều hòa của các giá trị number là:		15.65109

- Where **number** values ??are logical or text values ??-> they are ignored:

STT	Number	Giá trị
1	number1	9
2	number2	11
3	number3	TRUE
4	number4	19
5	number5	36
Trung bình điều hòa của các giá trị number là:		14.16282

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

Good luck!

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