How can I use SUMSQ in Google Sheets? Can you provide an example?”

Authored by

stats writer

June 27, 2024

SUMSQ is a function available in Google Sheets that allows users to calculate the sum of squares of a given set of numbers. This function is useful for finding the total squared value of a range of cells. To use SUMSQ, simply input the desired range of cells as the function's argument. For example, to find the sum of squares for the numbers in cells A1 to A10, the formula would be =SUMSQ(A1:A10). This will return the total squared value for those numbers. Overall, SUMSQ is a convenient tool for performing mathematical calculations in Google Sheets.

Use SUMSQ in Google Sheets (With Example)

You can use the SUMSQ function in Google Sheets to calculate the sum of squares for a given sample.

This function uses the following basic syntax:

=SUMSQ(value1, value2, value3, ...)

Here's the formula that SUMSQ actually uses:

Sum of squares = Σxi2

where:

Σ: A fancy symbol that means "sum"xi: The ith data value

The following example shows how to use this function in practice.

Example: How to Use DEVSQ in Google Sheets

Suppose we have the following dataset in Google Sheets:

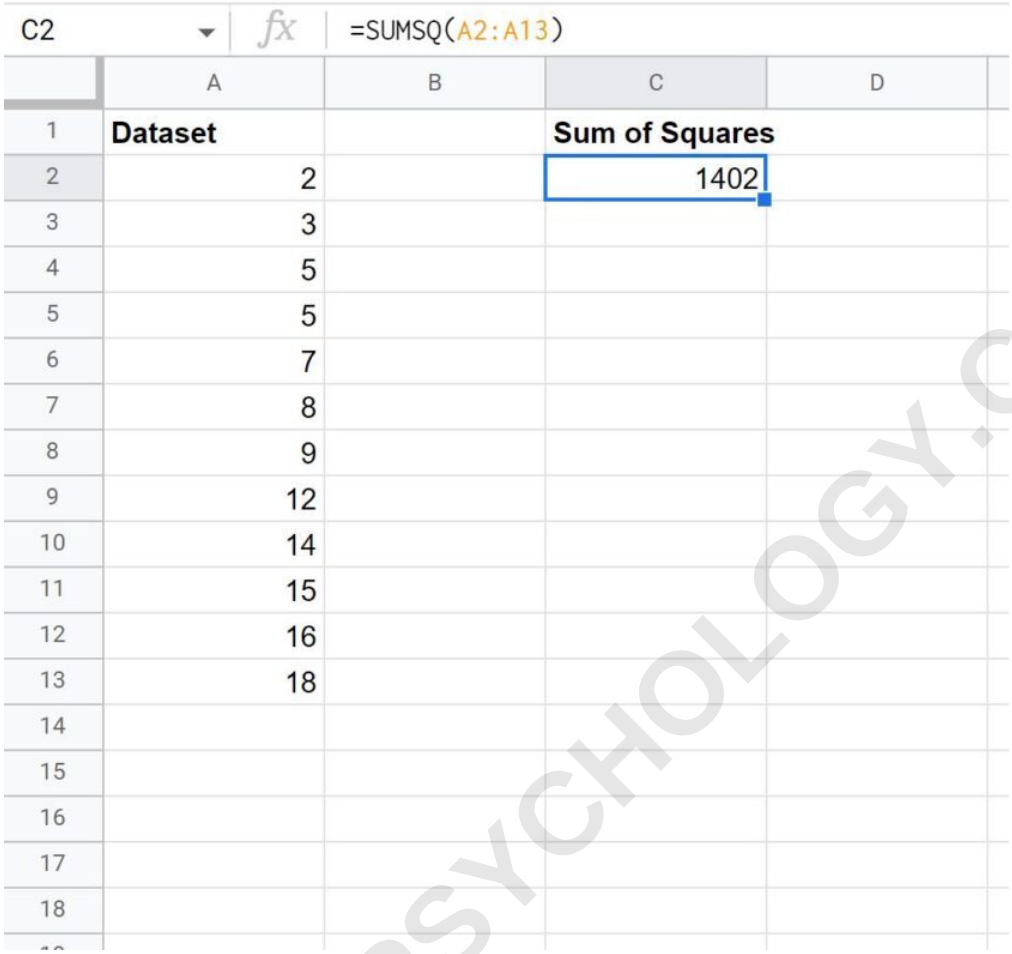
	A	B	C	D
1	**Dataset**			
2	2			
3	3			
4	5			
5	5			
6	7			
7	8			
8	9			
9	12			
10	14			
11	15			
12	16			
13	18			
14				
15				
16				
17				
18				
19				

We can use the following formula to calculated the sum of squares for this dataset:

=SUMSQ(A2:A13)

The following screenshot shows how to use this

formula in practice:



The sum of squares turns out to be 1,402.

We can confirm this is correct by manually calculating the sum of squares for this dataset:

Sum of squares = Σxi2Sum of squares = 22 + 32 + 52 + 52 + 72 + 82 + 92 + 122 + 142 + 152 + 162 + 182Sum of squares = 4 + 9 + 25 + 25 + 49 + 64 + 81 + 144 + 196 + 225 + 256 + 324Sum of squares = 1,402

The sum of squares turns out to be 1,402.

This matches the value that we calculated using the SUMSQ function.