

SUBTOTAL function - The calculation function for a group in a list in Excel

SUBTOTAL function: A function that calculates a subgroup in a book set or a data table depending on the calculation involving the first parameter.

SUBTOTAL function: A function that calculates a subgroup in a book set or a data table depending on the calculation involving the first parameter.

Syntax: SUBTOTAL (function_num, ref1, ref2, .) .

Inside:

- **function_num:** Number specifying the function used to calculate. Conventions are as follows: With Office version 2000 onwards the function convention is from number 1 to 11, with Office 2003, 2007 and later, the convention number is from 101 to 111. The numbers correspond to the functions:

+ AVERAGE function: 1 or 101.

+ COUNT function: 2 or 102.

+ COUNTA function: 3 or 103.

+ MAX function: 4 or 104.

+ MIN function: 5 or 105.

+ PRODUCT function: 6 or 106.

+ STDEV function: 7 or 107.

+ STDEVP function: 8 or 108.

+ SUM function: 9 or 109.

+ VAR function: 10 or 110.

+ VARP function: 11 or 111

- **ref1, ref2 :** Range of data range you want to reference, can contain from 2 to 254 ranges of data you want to calculate.

Attention:

- In case if there are many nested SUBTOTAL functions put in ref1, ref2 => nested SUBTOTAL functions are ignored to avoid double counting.
- The Function_num argument if it is in the value set from 1 to 11 => the function that performs the calculation includes the hidden values ??in the dataset, if it is in the value set from 101 to 111 => the function that performs the calculation Ignore hidden values.
- The function will ignore without calculating all hidden rows by using the Auto Filter command which does not depend on the Function_num parameter.
- The function is set to calculate for vertical columns, it does not perform horizontal calculations.
- The function only performs calculations for 2D parameters, for example 3 D parameters = **Sum (Sheet1: Sheet5! A5** => error function #VALUE!
- For Excel 2000 / XP Function arguments only accept values ??from 1 to 11.
- In case if the data area has used Filter, when using Subtotal function, the result is not correct.

Example 1: For the data table.

Cách sử dụng hàm SUBTOTAL			
Tên khách hàng	Mặt hàng mua	Số tiền	
Nam	Tivi	1680000	
Hoa	Tủ lạnh	9368000	
Hải	Điều hòa	17056000	
Huyền	Máy giặt	24744000	
Ngân	Tivi	32432000	

Calculate total sales, average amount per item, calculate number of items sold based on number of customers.

- **Calculate the total amount sold :**

The sum function is the Sum function corresponding to Function = 9 in Subtotal => enter the formula in the cell to be calculated as follows: = **SUBTOTAL (9, D13: D17)** => get the results:

D18 : ✕ ✓ fx =SUBTOTAL(9,D13:D17)

Cách sử dụng hàm SUBTOTAL			
Tên khách hàng	Mặt hàng mua	Số tiền	
Nam	Tivi	1680000	
Hoa	Tủ lạnh	9368000	
Hải	Điều hòa	17056000	
Huyền	Máy giặt	24744000	
Ngân	Tivi	32432000	
Tổng số tiền đã bán được là:		85280000	

Du_Lieu Sheet1

- Calculate the average amount per item .

The Average function corresponds to the function_num = 1 in the subtotal function => enter the formula **SUBTOTAL (1, D13: D17)** => get the result:

D19 : ✕ ✓ fx =SUBTOTAL(1,D13:D18)

Cách sử dụng hàm SUBTOTAL			
Tên khách hàng	Mặt hàng mua	Số tiền	
Nam	Tivi	1680000	
Hoa	Tủ lạnh	9368000	
Hải	Điều hòa	17056000	
Huyền	Máy giặt	24744000	
Ngân	Tivi	32432000	
Tổng số tiền đã bán được là:		85280000	
Trung bình số tiền đã bán được là:		17056000	

Du_Lieu Sheet1

- Calculate the number of items sold based on the number of buyers .

The Count function corresponds to Function_num = 2 in Subtotal => enter the formula = **SUBTOTAL (2, D13: D17)** => get the result.

Cách sử dụng hàm SUBTOTAL			
Tên khách hàng	Mặt hàng mua	Số tiền	
Nam	Tivi	1680000	
Hoa	Tủ lạnh	9368000	
Hải	Điều hòa	17056000	
Huyền	Máy giặt	24744000	
Ngân	Tivi	32432000	
Tổng số tiền đã bán được là:		85280000	
Trung bình số tiền đã bán được là:		17056000	
Số mặt hàng đã bán được là:		5	

This way you can use the flexible Subtotal function in many calculations without having to remember other functions.

Example 2:

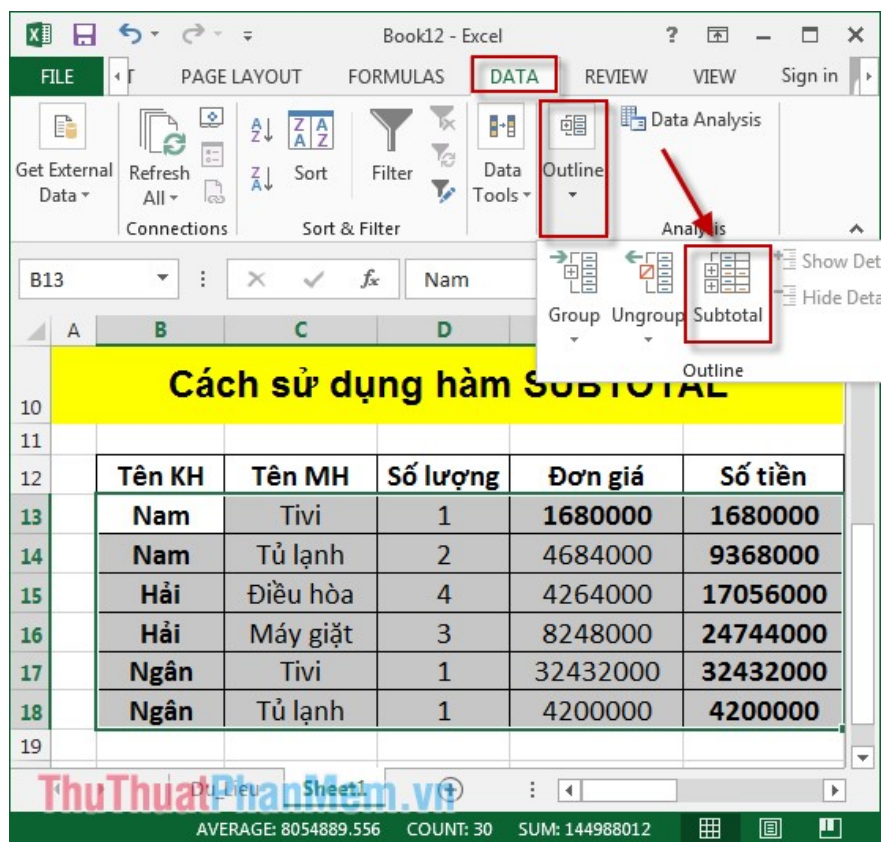
Using the Subtotal function is a built-in tool built into Excel.

Give the following table:

Cách sử dụng hàm SUBTOTAL					
Tên KH	Tên MH	Số lượng	Đơn giá	Số tiền	
Nam	Tivi	1	1680000	1680000	
Nam	Tủ lạnh	2	4684000	9368000	
Hải	Điều hòa	4	4264000	17056000	
Hải	Máy giặt	3	8248000	24744000	
Ngân	Tivi	1	32432000	32432000	
Ngân	Tủ lạnh	1	4200000	4200000	

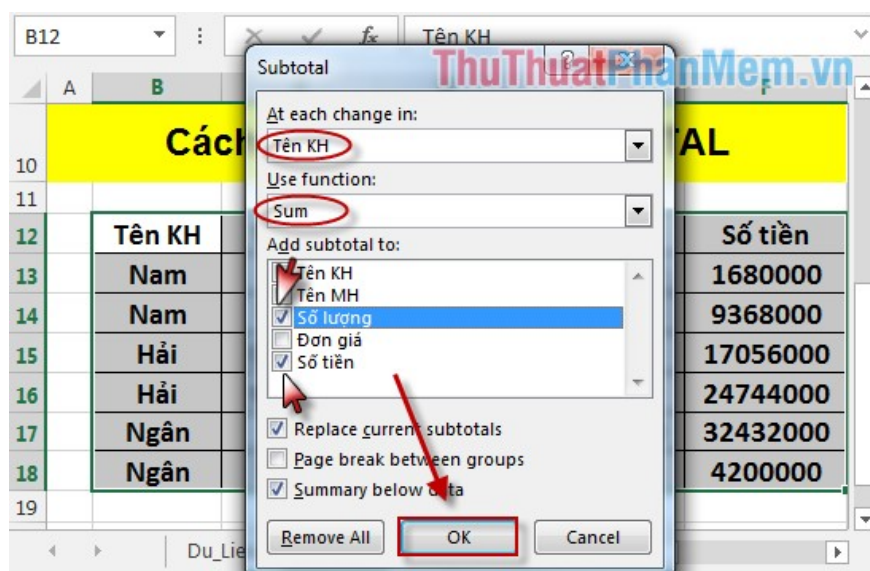
Calculate the total amount, the number of items purchased by each customer, and the total amount and total number of items sold by the store.

Step 1 : Select the entire data table (including the title) -> Go to **Data** tab -> **Outline** -> **Subtotal** . (In case you do not customize the toolbar you go to **Data** tab -> **Subtotal**).



Step 2: The Subtotal dialog box appears:

- Item **At each change in:** select the column **Title KH name** because here calculated by total by customer name.
- **Use function :** Select **Sum** because here perform the sum should use Sum function.
- Item **Add subtotal to :** tick the **Amount** and **Amount** because here performs the total calculation by number and amount.



Click **OK** to get the results:



	A	B	C	D	E	F
10	Cách sử dụng hàm SUBTOTAL					
11						
12		Tên KH	Tên MH	Số lượng	Đơn giá	Số tiền
13		Nam	Tivi	1	1680000	1680000
14		Nam	Tủ lạnh	2	4684000	9368000
15		Nam Total		3		11048000
16		Hải	Điều hòa	4	4264000	17056000
17		Hải	Máy giặt	3	8248000	24744000
18		Hải Total		7		41800000
19		Ngân	Tivi	1	32432000	32432000
20		Ngân	Tủ lạnh	1	4200000	4200000
21		Ngân Total		2		36632000
22		Grand Total		12		89480000
23						

So each customer is charged with the total and the total number of items purchased. Also calculate the total amount and the total number of items sold by the store. => Use more Subtotal feature and Subtotal function very suitable for managing sales.

Good luck!

You finished reading the article "**SUBTOTAL function - The calculation function for a group in a list 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.