



=, ==, === ?

In JavaScript:

= assigns values,

==, compares values

===, compares types

```
var mynumber = 5
```

```
if (mynumber == "5") {} //true (because it is 5)
```

```
if (mynumber === "5") {} //false (because mynumber is the number 5 and comparing it with string "5")
```

In Excel,

= assigns (typically to a cell)

= compares

=sum(2,5)

Answer: 7

= if(5=2,"yes","no")

Answer: no

How much did we spend today?

=sum(C2:C5)

what's this " : "

If given 2 cells, separated by a colon, and it will draw the smallest possible imaginary box around it. And do the operation on all those cells. And give you the result and put it in the cell in which you call this operation.

Excel sheet:

The following steps are used to fill the given sheet.

Item	Category	Price
OV Milk 64oz	Grocery	\$ 4.39
Florida's Natural OJ	Grocery	\$ 2.98
Stonyfield Yogurt PI	Grocery	\$ 5.25
Tide 120oz Spring	Household	\$ 14.97
Vermont Bread	Grocery	\$ 2.55
Subtotal		=SUM(D2:D6)

Item	Category	Price
OV Milk 64oz	Grocery	\$ 4.39
Florida's Natural OJ	Grocery	\$ 2.98
Stonyfield Yogurt PI	Grocery	\$ 5.25
Tide 120oz Spring	Household	\$ 14.97
Vermont Bread	Grocery	\$ 2.55
Subtotal		\$ 30.14
Tax	10%	=D8*C10

Item	Category	Price
OV Milk 64oz	Grocery	\$ 4.39
Florida's Natural OJ	Grocery	\$ 2.98
Stonyfield Yogurt PI	Grocery	\$ 5.25
Tide 120oz Spring	Household	\$ 14.97
Vermont Bread	Grocery	\$ 2.55
Subtotal		\$ 30.14
Tax	10%	\$ 3.01
Grand Total		=D10+D8

Item	Category	Price
OV Milk 64oz	Grocery	\$ 4.39
Florida's Natural OJ	Grocery	\$ 2.98
Stonyfield Yogurt PI	Grocery	\$ 5.25
Tide 120oz Spring	Household	\$ 14.97
Vermont Bread	Grocery	\$ 2.55
Subtotal		\$ 30.14
Tax	10%	\$ 3.01
Grand Total		\$ 33.15
Your expenses by category:		
Category	Items	Cost
Grocery	=COUNTIFS(C2:C6,B15)	
Household		1

Item	Category	Price	
OV Milk 64oz	Grocery	\$	4.39
Florida's Natural OJ	Grocery	\$	2.98
Stonyfield Yogurt PI	Grocery	\$	5.25
Tide 120oz Spring	Household	\$	14.97
Vermont Bread	Grocery	\$	2.55
Subtotal		\$	30.14
Tax	10%	\$	3.01
Grand Total		\$	33.15
Your expenses by category:			
Category	Items	Cost	
Grocery		4	
Household	=COUNTIFS(C2:C6,B17)		

Item	Category	Price	
OV Milk 64oz	Grocery	\$	4.39
Florida's Natural OJ	Grocery	\$	2.98
Stonyfield Yogurt PI	Grocery	\$	5.25
Tide 120oz Spring	Household	\$	14.97
Vermont Bread	Grocery	\$	2.55
Subtotal		\$	30.14
Tax	10%	\$	3.01
Grand Total		\$	33.15
Your expenses by category:			
Category	Items	Cost	
Grocery		4	=SUMIFS(D2:D6,C2:C6,B15)
Household		1	

Item	Category	Price	
OV Milk 64oz	Grocery	\$	4.39
Florida's Natural OJ	Grocery	\$	2.98
Stonyfield Yogurt PI	Grocery	\$	5.25
Tide 120oz Spring	Household	\$	14.97
Vermont Bread	Grocery	\$	2.55
Subtotal		\$	30.14
Tax	10%	\$	3.01
Grand Total		\$	33.15
Your expenses by category:			
Category	Items	Cost	
Grocery		4	\$ 15.17
Household		1	=SUMIFS(
			SUMIFS(sum_range, criteria_range1, criteria1, ...)

When we write formula, “=SUMIFS(“ or “=IF(“ or “COUNTIFS(“, a small yellow box comes up which mentions the order in which the entries must be mentioned.

Item	Category	Price	
OV Milk 64oz	Grocery	\$	4.39
Florida's Natural OJ	Grocery	\$	2.98
Stonyfield Yogurt PI	Grocery	\$	5.25
Tide 120oz Spring	Household	\$	14.97
Vermont Bread	Grocery	\$	2.55
Subtotal		\$	30.14
Tax	10%	\$	3.01
Grand Total		\$	33.15
Your expenses by category:			
Category	Items	Cost	
Grocery		4	\$ 15.17
Household		1	=SUMIFS(D2:D6,C2:C6,B17)
			SUMIFS(sum_range, criteria_range1, criteria1, [criteria_range2, criteria2], ...)