

# How can I use a SUMPRODUCT IF formula in Google Sheets?

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## RECOMMENDED CITATION

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A SUMPRODUCT IF formula in Google Sheets is a powerful tool that allows users to calculate the sum of a set of values based on certain criteria. This formula combines the SUMPRODUCT function, which multiplies corresponding arrays and returns the sum of those products, with the IF function, which allows for the inclusion or exclusion of values based on a specified condition. By using this formula, users can easily perform complex calculations and obtain precise results in their Google Sheets. This feature is particularly useful for analyzing data sets and making data-driven decisions.

## Use a SUMPRODUCT IF Formula in Google Sheets

You can use the following methods to create a SUMPRODUCT IF formula in Google Sheets:

### Method 1: SUMPRODUCT IF with One Criteria

**=SUMPRODUCT(--(A2:A12="value"), C2:C12,D2:D12)**

This formula finds the sum of the products between columns C and D only where the value in column A is equal to "value."

### Method 2: SUMPRODUCT IF with Multiple Criteria

**=SUMPRODUCT(--(A2:A12="value1"),--(B2:B12="value2"), C2:C12, D2:D12)**

This formula finds the sum of the products between columns C and D only where the value in column A is

equal to "value1" *and* the value in column B is equal to "value2."

The following examples show how to use each method with the following dataset in in Google Sheets:

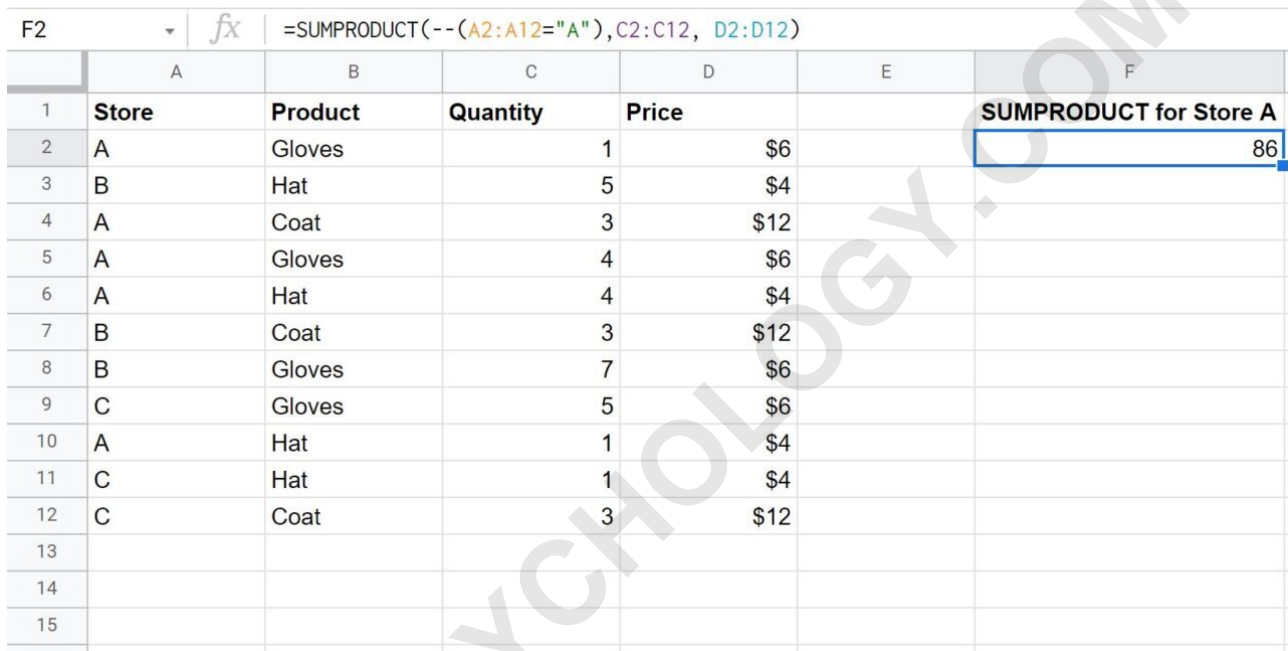
	A	B	C	D	E
1	<b>Store</b>	<b>Product</b>	<b>Quantity</b>	<b>Price</b>	
2	A	Gloves	1	\$6	
3	B	Hat	5	\$4	
4	A	Coat	3	\$12	
5	A	Gloves	4	\$6	
6	A	Hat	4	\$4	
7	B	Coat	3	\$12	
8	B	Gloves	7	\$6	
9	C	Gloves	5	\$6	
10	A	Hat	1	\$4	
11	C	Hat	1	\$4	
12	C	Coat	3	\$12	
13					
14					
15					
16					
17					
18					
19					

#### Example 1: SUMPRODUCT IF with One Criteria

We can use the following formula to calculate the sum of the products between the Quantity and Price columns only for the rows where the Store column is equal to "A":

**=SUMPRODUCT(--(A2:A12="A"), C2:C12,D2:D12)**

The following screenshot shows how to use this syntax in practice:



	A	B	C	D	E	F
1	Store	Product	Quantity	Price		SUMPRODUCT for Store A
2	A	Gloves	1	\$6		86
3	B	Hat	5	\$4		
4	A	Coat	3	\$12		
5	A	Gloves	4	\$6		
6	A	Hat	4	\$4		
7	B	Coat	3	\$12		
8	B	Gloves	7	\$6		
9	C	Gloves	5	\$6		
10	A	Hat	1	\$4		
11	C	Hat	1	\$4		
12	C	Coat	3	\$12		
13						
14						
15						

The sum of the products between Quantity and Price for Store A turns out to be 86.

We can manually verify this is correct by taking the sum of the products between quantity and price for store A only:

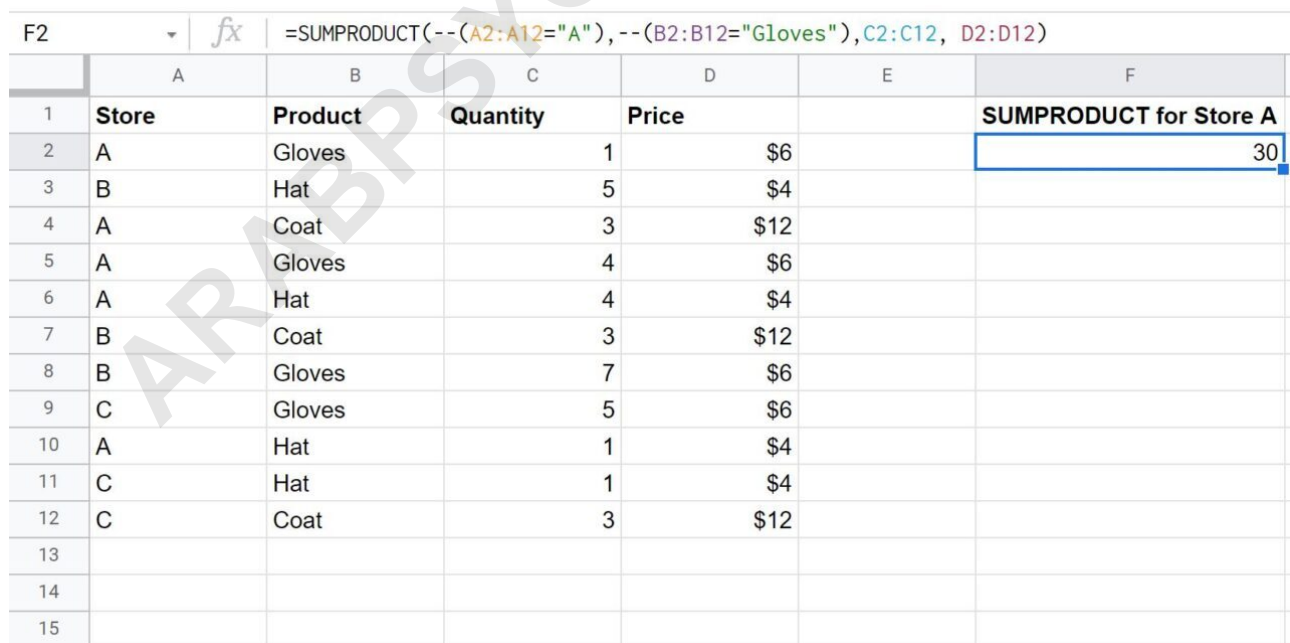
**SUMPRODUCT for Store A:  $1*6 + 3*12 + 4*6 + 4*4 + 1*4 = 86$ .**

## Example 2: SUMPRODUCT IF with Multiple Criteria

We can use the following formula to calculate the sum of the products between the Quantity and Price columns only for the rows where the Store column is equal to "A" and the Product column is equal to "Gloves":

```
=SUMPRODUCT(--(A2:A12="A"),--(B2:B12="Gloves"),C2:C12, D2:D12)
```

The following screenshot shows how to use this syntax in practice:



	A	B	C	D	E	F
1	Store	Product	Quantity	Price		SUMPRODUCT for Store A
2	A	Gloves	1	\$6		30
3	B	Hat	5	\$4		
4	A	Coat	3	\$12		
5	A	Gloves	4	\$6		
6	A	Hat	4	\$4		
7	B	Coat	3	\$12		
8	B	Gloves	7	\$6		
9	C	Gloves	5	\$6		
10	A	Hat	1	\$4		
11	C	Hat	1	\$4		
12	C	Coat	3	\$12		
13						
14						
15						

The sum of the products between Quantity and Price for

**"Gloves" in store A turns out to be 30.**

**We can manually verify this is correct by taking the sum of the products between quantity and price for "Gloves" in store A only:**

**SUMPRODUCT for "Gloves" in Store A:  $1*6 + 4*6 = 30$ .**

**Additional Resources**

**The following tutorials explain how to perform other common tasks in Google Sheets:**