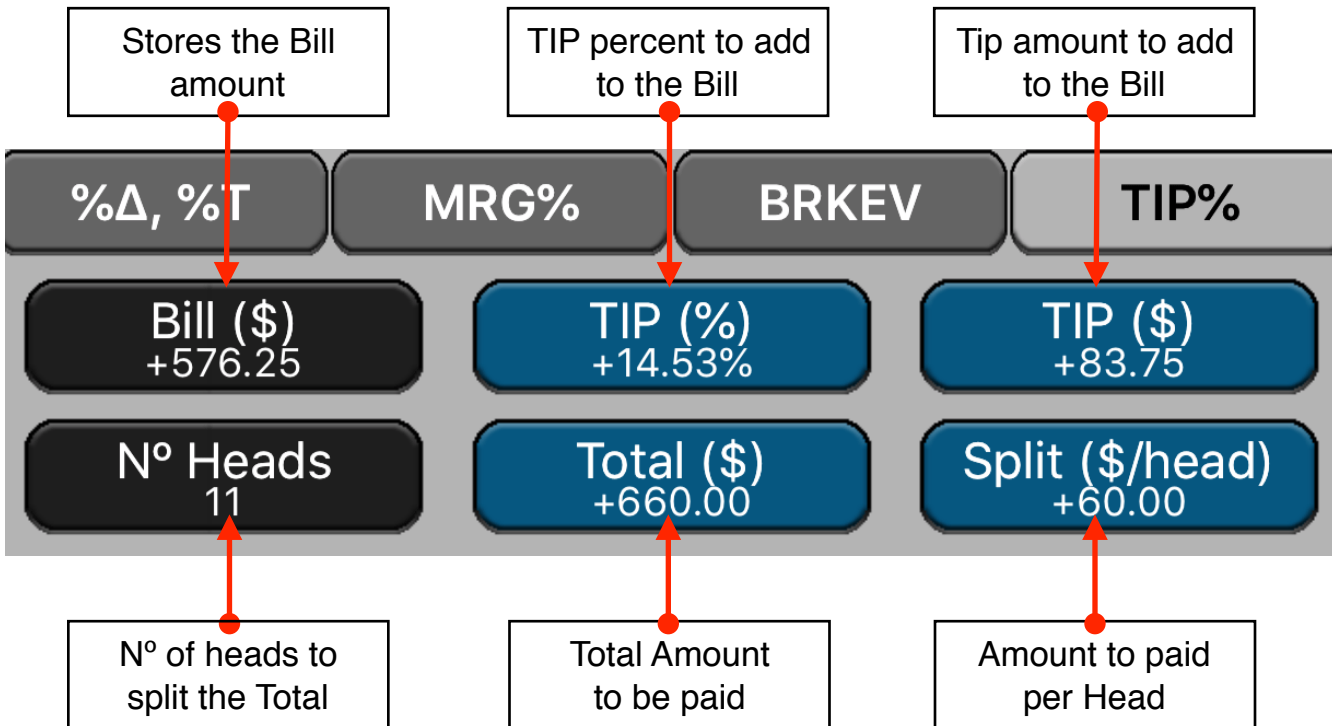


TIP & Bill Split Menu

This tool implements a simple way to manage the “Bill-Tip-Split” problem. To show it, touch “**Business**” button in the main menu and select the “**Tip & Bill Split**” option.



To perform the calculations, two parameters and one variable must be entered.

The parameters are the Bill amount “**Bill(\$)**” and the number of persons that share the bill “**N° Heads**”.

The variable could be any of the blue buttons, the tip percentage “**TIP(%)**”, the tip amount “**TIP(\$)**”, the total amount “**Total(\$)**” or the split of the bill “**Split (\$/Head)**”.

Each time a number is entered into a parameter or variable, the calculation of all the others are performed automatically :

Button	Performed Actions
Type a number and touch [Bill (\$)]	Stores the Bill amount and calculates : $\text{Tip}(\$) = \text{Bill}(\$) \cdot (\text{TIP}(\%) \div 100)$ $\text{Total}(\$) = \text{Bill}(\$) + \text{Tip}(\$)$ $\text{Split}(\$) = \text{Total}(\$) \div \text{Split}(\$/\text{Head})$
Type a number and touch [N°Heads]	Stores the number of persons and calculates : $\text{Split}(\$) = \text{Total}(\$) \div \text{Split}(\$/\text{Head})$
Type a number and touch [TIP(%)]	Stores the tip percentage and calculates : $\text{Tip}(\$) = \text{Bill}(\$) \cdot (\text{TIP}(\%) \div 100)$ $\text{Total}(\$) = \text{Bill}(\$) + \text{Tip}(\$)$ $\text{Split}(\$) = \text{Total}(\$) \div \text{Split}(\$/\text{Head})$
Type a number and touch [TIP(\$)]	Stores the tip amount and calculates : $\text{TIP}(\%) = 100 \cdot (\text{Tip}(\$) \div \text{Bill}(\$))$ $\text{Total}(\$) = \text{Bill}(\$) + \text{Tip}(\$)$ $\text{Split}(\$) = \text{Total}(\$) \div \text{Split}(\$/\text{Head})$
Type a number and touch [Total(\$)]	Stores the total to be paid and calculates : $\text{Tip}(\$) = \text{Total}(\$) - \text{Bill}(\$)$ $\text{TIP}(\%) = 100 \cdot (\text{Tip}(\$) \div \text{Bill}(\$))$ $\text{Split}(\$) = \text{Total}(\$) \div \text{Split}(\$/\text{Head})$
Type a number and touch [Split(\$/Head)]	Stores the each person amount to pay and calculates : $\text{Total}(\$) = \text{N}^\circ\text{Persons} \cdot \text{Split}(\$/\text{Head})$ $\text{Tip}(\$) = \text{Total}(\$) - \text{Bill}(\$)$ $\text{TIP}(\%) = 100 \cdot (\text{Tip}(\$) \div \text{Bill}(\$))$

Example:

A dinner Bill is \$576.25 and 11 persons will share it. What is the amount per person if all agree to add a 15% tip?.

Keystrokes	Description
Type 576.25 [Bill(\$)]	Stores the Bill amount.
Type 11 [N° Heads]	Enter the number of persons.
Type 15 [TIP(%)]	Stores the tip percentaje.
[Tip(\$)]	Shows the tip amount. Tip Amount = \$86.44
[Total(\$)]	Shows the total amount. Total Amount = \$662.69
[Split(\$/Head)]	Shows the amount to pay per person. Total / Person = \$60.24

Suppose no one wants to pay the exact amount and the split is rounded to \$60.00. What is the Tip% and the new Total ?

Keystrokes	Description
Type 60 [Split(\$/Head)]	Stores the rounded amount per person.
[Total(\$)]	Shows the new Total. Total Amount = 660.00
[Tip(\$)]	Shows the tip amount. Tip Amount = \$83.75
[TIP(%)]	Shows the new Tip percent. TIP (%) = 14.53