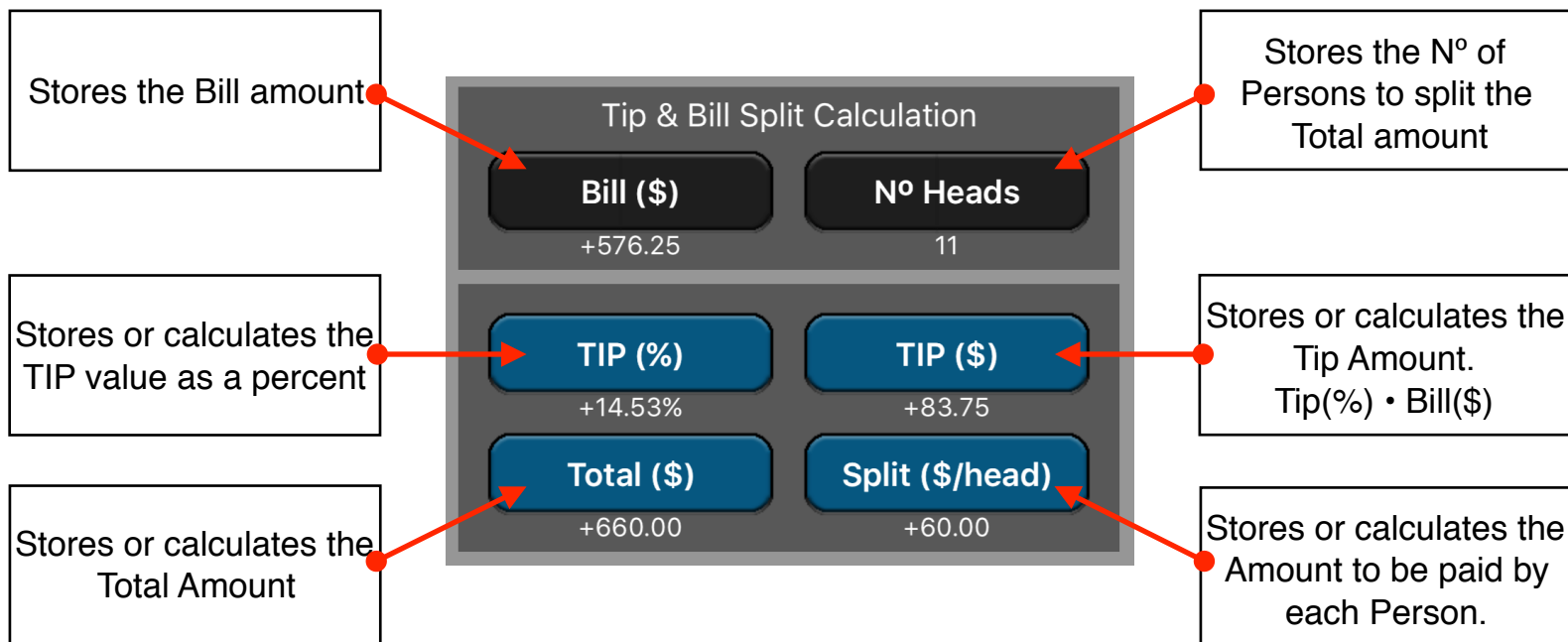


# TIP & Bill Split “Pro” Tool

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



The “Tip Calculations” tool allows you solve the simple problem of share a restaurant tip and bill in a number of persons.

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 <b>[Bill (\$)]</b>	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 <b>[N°Heads]</b>	Stores the number of persons and calculates : $\text{Split}(\$) = \text{Total}(\$) \div \text{Split}(\$/\text{Head})$
Type a number and touch <b>[TIP(%)]</b>	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 <b>[Tip(\$)]</b>	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 <b>[Total(\$)]</b>	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 <b>[Split(\$/Head)]</b>	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 <b>[Bill(\$)]</b>	Stores the Bill amount.
Type 11 <b>[N°Persons]</b>	Enter the number of persons.

Keystrokes	Description
Type 15 [TIP(%)]	Stores the tip percentaje.
[Tip(\$)]	Shows the tip amount. <b>Tip Amount = \$86.44</b>
[Total(\$)]	Shows the total amount. <b>Total Amount = \$662.69</b>
[Split(\$/Head)]	Shows the amount to pay per person. <b>Total / Person = \$60.24</b>

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. <b>Total Amount = 660.00</b>
[Tip(\$)]	Shows the tip amount. <b>Tip Amount = \$83.75</b>
[TIP(%)]	Shows the new Tip percent. <b>TIP (%) = 14.53</b>