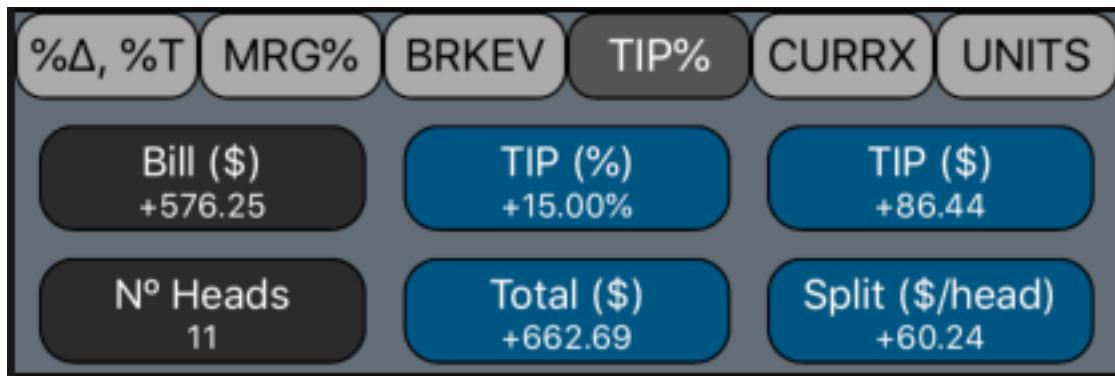


# TIP Calculation Menu

This tool implements a simple way to manage the “Bill-Tip-Split” problem. To show it, touch the “**BUS**” menu and select the “**TIP%**” tab.



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 “**Nº Heads**”. The variable could be any of the blue buttons.

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 : $TIP(\$) = Bill(\$) \cdot ( TIP(\%) \div 100 )$ $Total(\$) = Bill(\$) + TIP(\$)$ $Split(\$) = Total(\$) \div Split(\$/Head)$
Type a number and touch <b>[NºHeads]</b>	Stores the number of persons and calculates : $Split(\$) = Total(\$) \div Split(\$/Head)$
Type a number and touch <b>[TIP(%)]</b>	Stores the tip percentage and calculates : $TIP(\$) = Bill(\$) \cdot ( TIP(\%) \div 100 )$ $Total(\$) = Bill(\$) + TIP(\$)$ $Split(\$) = Total(\$) \div Split(\$/Head)$

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

### 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?.

### Solution:

Keystrokes	Description
Type 576.25 <b>[Bill(\$)]</b>	Stores the Bill amount.
Type 11 <b>[N° Heads]</b>	Enter the number of persons.
Type 15 <b>[TIP(%)]</b>	Stores the tip percentage.
<b>[TIP(\$)]</b>	Shows the tip amount. <b>Tip Amount = \$86.44</b>
<b>[Total(\$)]</b>	Shows the total amount. <b>Total Amount = \$662.69</b>
<b>[Split(\$/Head)]</b>	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 <b>[Split(\$/Head)]</b>	Stores the rounded amount per person.
<b>[Total(\$)]</b>	Shows the new Total. <b>Total Amount = 660.00</b>
<b>[TIP(\$)]</b>	Shows the tip amount. <b>Tip Amount = \$83.75</b>
<b>[TIP(%)]</b>	Shows the new Tip percent. <b>TIP (%) = 14.53</b>