






# TIP Calculation Menu ( TIP% )



The Tip menu allows you solve the simple problem of share a restaurant tip and bill in a number of persons. The calculation uses the following equations:

$$\mathbf{TOT = BILL \cdot ( 1 + TIP\% \div 100 )}$$






$$\mathbf{SPLIT = TOTAL \div \#NP}$$

Button	Button Actions
	Stores or calculates the Bill amount. $\mathbf{BILL = TOT \div ( 1 + TIP\% \div 100 )}$
	Stores or calculates the Tip percent value. $\mathbf{TIP\% = 100 \cdot ( TOT - BILL ) / BILL}$
	Stores or calculates the Total amount to be paid. $\mathbf{TOT = BILL \cdot ( 1 + TIP\% / 100 )}$ or; $\mathbf{TOT = SPLIT \cdot \#NP}$ depending on the last key pressed.
	Stores the number of persons that will share the Total (TOT).
	Stores or calculates the amount to be paid by each person. $\mathbf{SPLIT = TOT / \#NP}$




## 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:** Follow the next sequence:

Keystrokes	Description
576.25 	Stores the Bill amount. <b>BILL = 576.25</b>
15 	Stores the tip percentaje. <b>TIP% = 15.00</b>
	Calculates the Total to be divided. <b>TOT = 662.69</b>
11 	Enter the number of persons. <b>#NP = 11.00</b>
	Calculates the amount to pay per person. <b>SPLIT = 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
60 	Stores the rounded amount per person. <b>SPLIT = 60.00</b>
	Calculates the new Total. <b>TOT = 660.00</b>
	Calculates the new Tip percent. <b>TIP% = 14.53</b>