

Percentages Calculations

The HP-12C calculator has three keys for solving percentage problems: $\%$, $\Delta\%$, and $\%T$. There is no need to convert percentages to their decimal equivalents, the calculator automatically does the conversion when you press any of these keys.

$\%$ Percent Function

The $\%$ key calculates the stack-X value percentage of the stack-Y value. The result in stack-X is equal to $Y \cdot X / 100$.

Example : Percent of a Number

What is the 15% of 45.3 ?.

(in RPN mode)

Keystrokes	Description
Type "45.3" ENTER	Type the value and press "ENTER".
Type "15" $\%$	Type the percentage and press " $\%$ ". Result = 6.8






(in ALG mode)

Keystrokes	Description
Type "45.3" \times	Type the value and press multiply.
Type "15" $\%$	Type the percentage and " $\%$ ".
$=$	Calculates the result. Result = 6.8







Example : Discount and Tax

If you buy a new iPhone at list price of \$550.00, and the seller offers you a 8% discount. What is net value. If the tax is 6%, what is the total cost?.


(in RPN mode)

Keystrokes	Description
Type "550" 	Type the price value and press "ENTER".
Type "8"  	Type the discount and subtract it. Result = 506.00
Type "6"  	Type the tax and add it. Result = 536.36

(in ALG mode)

Keystrokes	Description
Type "550" 	Type the price value and press minus.
Type "8" 	Type the percentage and "%". Result = 44.00
	Calculates the result. Result = 506.00
 Type "6" 	Press plus, type the percentage and "%". Result = 30.36
	Calculates the result. Result = 536.36

Percent Change Function

The  key calculates the percent difference between stack-X value and stack-Y value. The result in stack-X is equal to $100 \cdot (X - Y) / Y$.

Example : Percent Change

What is the percent change of a stock if last year was at \$ 425 and now is at \$ 350 per share?.

(in RPN or ALG mode)

Keystrokes	Description
Type "425" <input type="button" value="ENTER"/>	Type the original value and press "ENTER".
Type "350" <input type="button" value="Δ%"/>	Type the new value and press "Δ%". Result= -17.65%

Percent of Total Function

The key calculates the percentage that the stack-X value is of the stack-Y value. The result in stack-X is equal to $100 \cdot X / Y$.

Example : Percent of Total

In a company there are 1152 employees in total, 350 women, and 802 men. What percentage of the employees are female ?

(in RPN or ALG mode)

Keystrokes	Description
Type "1152" <input type="button" value="ENTER"/>	Type the total value and press "ENTER".
Type "350" <input type="button" value="%T"/>	Type the number females and press "%T". Result = 30.38% of the employees are female.

As a special feature, the RLM-12 Finance Center has an additional tool to expand the percentage calculations. To show it, expand the calculator pressing the key and in the "Options Selection Menu" select the "[Percent & Int. Conv.](#)" option.