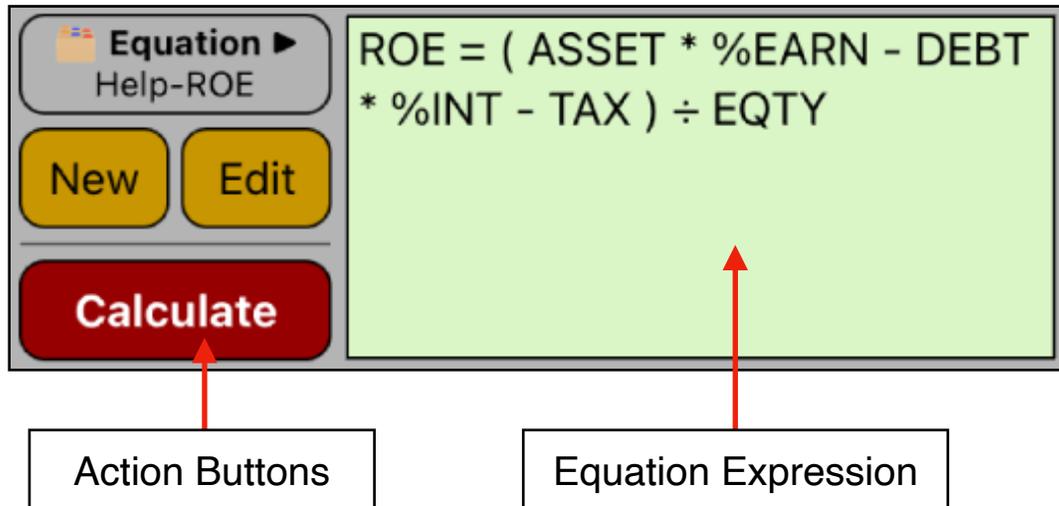


# Equation Solver Worksheet

The calculator has a powerful Equation Solver worksheet to calculate and edit equations that you enter in the “**Solver Equation Editor**” view.

The Solver menu has two areas: the action buttons and the equation area with the current equation name and its mathematical expression.



Solver Menu Actions	
[  <b>Equation</b> ► ]	Shows a menu to load a previously saved equation.
[ <b>New</b> ]	Opens the “ <b>Solver Equation Editor</b> ” to create a new equation.
[ <b>Edit</b> ]	Shows the “ <b>Solver Equation Editor</b> ” to edit the current equation.
[ <b>Calculate</b> ]	Creates a menu with all the variables of the current equation. Then any variable can be calculated using the values stored in the others.

To create an Equation, see the “**Solver Equation Editor**” document to learn all about entering algebraic expressions and functions. Once an equation text is entered, the Solver check the syntax and identify the variables that the equation has.

## Example: Return on Equity

Find the ROE of a small firm with \$2,000 in assets. The assets earned 10% while its debt cost it 8%. The assets were financed using \$500 of common equity and \$1,500 of debt. The firm paid no taxes.

The Formula is:  $ROE = (ASSET * \%EARN - DEBT * \%INT - TAX) \div EQTY$

**Solution:** With the Solver menu displayed in the calculator, follow the next sequence :

Keystrokes	Description
[ New ]	Shows and empty “ <b>Solver Equation Editor</b> ” ready to enter the equation.
In the keyboard type: R O E [ 123 ] [ = ] [ ( ] [ A B C ] A S S E T [ * ] [ 123 ] % [ A B C ] E A R N [ - ] D E B T [ * ] [ 123 ] % [ A B C ] I N T [ - ] T A X [ ) ] [ ÷ ] E Q T Y	
[  Name: ► ] [  Name... ]	Long touch in the top bar button to display the actions menu and select the “Name...” option.
“Help-ROE” [ Done ]	In the name input form, type “Help-ROE” as the equation name.
[ Save ]	Touch the “Save” button to check the expression. If the expression has no errors, the variable ordering view is shown.
ASSET %EARN DEBT %INT TAX EQTY ROE	Sort the variables as shown by dragging it to the proper position.
[ Save ]	Save the equation, close the editor and get back to solver menu.
[ Calculate ]	Show the ROE equation menu ready to calculate any variable.

# ROE Equation Worksheet

ASSET 2,000.00	%EARN 10.00	DEBT 1,500.00
%INT 8.00	TAX 0.00	EQTY 500.00
ROE 16.00		

Keystrokes	Description
2000 [ ASSET ]	Input the \$2,000 in assets into the ASSET variable.
10 [ %EARN ]	Input the asset earnings of 10% into %ERN variable.
1500 [ DEBT ]	Input \$1,500 debt amount into DEBT variable.
8 [ %INT ]	Input the 8% debt cost into %INT variable.
0 [ TAX ]	Input 0 taxes paid into TAX variable.
500 [ EQTY ]	Input \$500 common equity into EQTY variable.
[ ROE ]	Calculates ROE. <b>Result = 16.00</b>
If any other key is pressed before one of the <b>Blue</b> keys, the displayed number is stored in the corresponding variable. Otherwise, the variable is calculated.	