

In 5 steps to MAR Cal – First Users



Principle approach



Basic example



Operators



Hierarchy and brackets



Numeracy with powers and roots



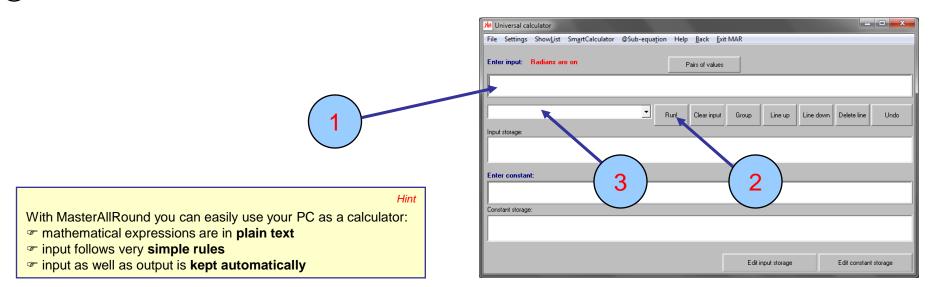
Principle Approach

The principle approach with the universal calculator is:

Enter the formula in the formula input field

Finalise the input with the return key or by clicking on the "Run!" button

See the result in the result field





Basic example

Let's assume that you wish to solve the following arithmetic problem: $\frac{2}{5}$

 $\frac{2}{5} + \frac{3}{2}$

Enter the following input into the formula input field: 2/5+3/2

Finalise your input with the return key or by clicking on the **"Run!**" button

3 You obtain the result: "1.9"

Hint MasterAllRound automatically saves input in the formula storage field.

To bring a stored formula back into the input field, simply click on it.

ſ	Me Universal calculator
	File Settings ShowList SmartCalculator @Sub-equation Help Back Exit MAR
	Enter input: Radians are on Pairs of values
	2/5+3/2
1)	= 1.9 Run Clear input Group Line up Line down Delete line Undo
	Input storage:
	Enter constant:
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Operators

The following **arithmetic operators** are available for basic calculations:

Addition:	+	e.g.:	22 + 43	results in:	65	
Subtraction:	-	e.g.:	78 - 44	results in:	34	
Multiplication:	*	e.g.:	2*3	results in:	6	
Division:	/	e.g.:	5/6	results in:	0.83	
Raise to a power:	٨	e.g.:	2 ^ 4	results in:	16	Hint Remember that the ^ key shows a visible result only in combination with a second keystroke.



Hierarchy and brackets

The universal calculator of MasterAllRound utilizes the algebraic hierarchy. The order of precedence is :

- 1. Raise to the power, e. g. 2^4
- 2. Multiplication and division, e. g. $2 \cdot 3$ or $\frac{5}{6}$
- 3. Addition and substraction, e. g .22 + 43 or 78 44

With the help of **brackets** you can **change the order of precedence**, as the term inside the bracket is evaluated first. Hence:

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 Image: Calculator

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 Enter input:
 Radians are on

 Pairs of values

 2.5*3 - 2.1/3.5

 Image: Pairs of values

 Image: Pairs of values

and

Use only round brackets

(2.5*3 - 2.1)/3.5 " results in "1.5429"

地 Universal calculator	
File Settings ShowList SmartCalculator @Sub-equation	Help <u>B</u> ack <u>E</u> xit MAR
Enter input: Radians are on	Pairs of values
(2.5*3 - 2.1)/3.5 = 1.5429	Run! Clear input Group Line up Line down Delete line Undo

Hint



Numeracy with powers and roots

- To raise a number to a power, use the "^A" as operator character
- To enter a square root, use the abbreviation "SQR" for "SQuare Root" Example: $\left(\frac{2}{5}\right)^3 + \sqrt{\frac{3}{2}}$
 - Enter the following input into the formula input field: (2/5)^3+SQR(3/2)
 - Finalise your input with the return key or by clicking on the "Run!" button

Remember that the ^ key shows a visible result only in combination with a second keystroke.

Hint

Hint

You can use lower or upper case letters.

Hint Instead of using the standard function "SQR", you could alternatively use either of the following inputs: (2/5)^3+(3/2)^0.5 or (2/5)^3+(3/2)^(1/2)

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	x (2/5))^3+8	SQR(3/2	2)					ູ2

3

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Run! Clear input

Group

Line up

Line down

Delete line

1.2887

MAR Cal: the PC calculator by MAR team

You obtain: "1.2887"

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Undo