

Operation Friden 1217



Operation in short:

Legend	Print	
Input register	IR	
Result register	RR	
Multiplication register (= memory)	MR	
Result register contents not modified		#
Addition in result register RR		+
Subtraction in result register RR		-
Current value in result register RR, RR has not been modified		S
Current value in result register RR, RR has been cleared		T
Storage of a value in MR (replaces current contents) or read from MR		X
Positive multiplicand		=
Negative multiplicand		≡
Divisor or division result		÷
<i>Remark: Negative values are printed in red</i>		

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Key + action	Print		
Digits 0 – 9 are subsequently entered in the input register IR			
BACK SPACE clears the outer right digit in the input register IR			
CLEAR KEYBOARD resets the input register IR			
+ adds the contents of IR to RR, then clears IR	<IR>	+	
- subtracts, then clears IR	<IR >	-	
REPEAT ADD adds without clearing the input register IR	<IR>	+	
- together with REPEAT ADD subtracts without clearing the input register IR	<IR >	-	
NON ADD prints the contents of IR without modifying the result register RR	<IR>	#	
SUB TOTAL prints the current contents of RR without clearing it	<RR>	S	
TOTAL prints the contents of the current result register RR and resets it to 0	<RR>	T	
X moves the content of IR into the multiplication register MR and clears IR	<IR>	#	X
X² moves the content of IR into the multiplication register MR without clearing IR	<IR>	#	X
= multiplies the contents of MR with the contents of IR, adds it to the result register RR, prints the result and clears RR	<IR> <RR>	= T	
NEG= multiplies the contents of the multiplication register with the contents of the input register, subtracts it from the result register RR, prints the result and clears RR	<IR> <RR>	≡ ř	≡
ACCUM= & NEG= multiplies the contents of the multiplication register MR with that of the input register IR, prints the result and subtracts it from the result register RR (if printed in red the result is negative)	<MR> <RR>	≡ ř	≡
TRANSFER= multiplies the contents of MR with that of IR, adds it to the contents of the IR and stores that sum in the multiplier register MR (=memory) ready for the next multiplication. The result can also be retrieved from memory for further addition or subtraction.	<RR>	T	X
FROM MEMORY reads the contents of MR in order to be used to add or subtract from the contents in the result register. It can also be used in combination with NON ADD . <i>In any case the original contents of the multiplication register is not altered</i>	<MR> <MR> <MR>	+ - #	X X X
TO MEMORY followed by + or - stores the RR value in multiplication register MR (RR is not cleared) Followed by SUB TOTAL or TOTAL stores the result in the multiplication register and clears RR	<IR> <IR> <RR> <RR>	+ - S T	X X X X
ENTER DIVIDEND clears the result register RR and then adds the contents of the input register IR to the outer left of the result register RR.	<RR>	+	
÷ starts division of the result register by the contents of the input register and stores it in MR	<IR> <MR>	# #	÷ ÷
DIV STOP stops a division and result is printed as shown in the row above			

Remark:

The user interface is a bit complex. It's hard to grasp the logic. The manual in some cases avoids issues by explaining when a key is used instead of what it does. A feeling of inconsistency is left.

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Examples

ADD, SUBTRACT, REPEAT & No-Print				
123.456 + 22.554 - 40.000 = 100.000				
Input		Print		
	TOTAL			
123456	+	1234.56	+	
999999	NON ADD	9.999.99	#	
8272	REPEAT ADD	82.72	+	
	REPEAT ADD	82.72	+	
	SUB TOTAL	1400.00	S	
40000	-	400.00	-	
	TOTAL	1000.00	T	

MULTIPLY				
25 x 30 x 2 = 1500				
Input		Print		
	TOTAL			
25	X	25	#	x
30	Transfer =	30		=
		750	T	x
2	X	02		=
		1500	T	

CALCULATE SQUARE				
12 ² = 144				
Input		Print		
	TOTAL			
12	X ²	12	X	
	=	12	=	
		1.44	T	

DIVIDE				
55.000 : 2 : 25 = 1100				
Input		Print		
	TOTAL			
55000	Enter Dividend	55000	+	
2	÷	02	#	÷
		27500	#	÷
	From Memory			
	Enter Dividend	27500	+	x
25	÷	25	#	÷
		1100	#	÷

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ADD & MULTIPLY				
(1.111 + 2.222) x 10 = 3.330				
Input		Print		
	TOTAL			
1111	+	11.11		
2222	+	22.22		
	SUB TOTAL	3333	S	
	TO MEMORY			
	TOTAL	3333	T	X
10	=	10		=
		33330	T	

DIVIDE & MULTIPLY				
340700 : 27 x 14 = 176652				
Input		Print		
	TOTAL			
340700	Enter Dividend	340700	+	
27	÷	27	#	:
		12618	#	:
14	=	176652	T	

SUBTRACT after MULTIPLICATION				
(2200 x 40) – (200 x 40) = 80.000				
Input		Print		
2200	X	2200	#	X
40	ACCUM	40		=
	=			
		88000	S	
200	X	200	#	X
40	NEG	40		≡
	=			
		80000	T	

MULTIPLY & DIVIDE				
340700 : 27 x 14 = 176652				
Input		Print		
	TOTAL			
12618	X	12618	#	X
26	ACCUM	328068		=
	=			
13	÷	13	#	:
		25236	#	:
14	=	176652	T	