HP10BII Financial Calculator Quick Reference Guide

Power On and Off

- To turn the calculator on, press the [ON] key in the lower left corner of the keypad.
- To turn the calculator off, press the orange shift key [SHIFT], then the [ON] key.

Display

- To change the display contrast, hold down the [ON] key, then press [+] or [-].
- To specify the number of displayed decimal places, press [SHIFT] [DISP] and enter the number of digits (0 through 9) to appear after the decimal point. Note: IREM courses use 2 decimal places.

Clearing the Calculator

- To clear one character at a time, press [←].
 If you have already pressed [=] or one of the function keys, then [←] will clear the entire display.
- To clear the entire display, press [C].
- To clear the entire display and all financial memory registers press [SHIFT] [C ALL].

Setting Periods per Year

Most calculations use one period per year (annual payments) or twelve periods per year (monthly payments).

- To set annual payments, press 1 [SHIFT] [P/YR]
- To set monthly payments, press 12 [SHIFT] [P/YR]

Adding or Subtracting a Percent

- To add a percent, enter the figure, press [+], enter the percentage and press [%] [=].
- To subtract a percent, enter the figure, press [-], enter the percentage and press [%] [=].

BASIC KEYS				
[ON]		Turns the calculator on		
[SHIFT]	[ON]	Turns the calculator off		
[ON]	[+][-]	Changes the contrast of the display (press simultaneously)		
[SHIFT]	[DISP]	Sets the number of decimal points displayed		
[Orm r]	[DIOI]	Accesses the alternate function printed on the lower half of the keys		
[SHIFT]		in orange		
[←]		Clears one character at a time		
[C]		Clears the entire display		
[SHIFT]	[C ALL]	Clears the entire display and all financial memory registers		
[+/-]		Changes the sign of the number in the display		
[SHIFT]	[BEG/END]	Sets begin or end mode		
[SHIFT]	[P/YR]	Sets the number of periods per year		
[INPUT]		Stores parameters for multi-variable functions		
[SHIFT]	[STO]	Store a number to a memory register		
[RCL]		Retrieves data already entered in a memory register		
TIME VALUE OF MONEY REGISTER and AMORTIZATION				
[NI]		Finds/stores the total number of periods the investment is		
[N]		compounded/discounted		
[SHIFT]	[x P/YR]	Stores the number of periods after multiplying the term by the payments per year		
[I/YR]		Finds/stores the interest rate per year		
[PV]		Finds/stores the present value		
[PMT]		Finds/stores the payment per period		
[FV]		Finds/stores the future value		
[SHIFT]	[AMORT]	Creates an amortization table		
CASH FLOW REGISTER				
[CFj]		Stores cash flows		
[SHIFT]		Stores the number of times the same cash flow amount occurs		
	[Nj]	consecutively		
[SHIFT]	[IRR/YR]	Finds internal rate of return		
[SHIFT]	[NPV]	Finds net present value		
MARKUP)			
[MU]		Finds/stores markup percentage		
[CST]		Finds/stores cost before markup		
[PRC]		Finds/stores price after markup		
[MAR]		Finds/stores margin percentage after markup		
STATISTI	ICS			
[STATS]		Accesses the alternate function printed above the keys in purple		
[STATS]	[n]	Displays the number of entries in a statistics list		
[STATS]	[Σx]	Sums entries in a statistics list		
[SHIFT]	 [x,y]	Calculates the mean of entries in a statistics list		
[נו וו	[^,y]	Calculates the mean of chines in a statistics list		

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Time Value of Money (TVM) Registers and Amortization

To solve for one of the TVM registers, you must enter non-zero values in three of the other four registers (the HP10BII will assume that the value for the fourth register is zero).

To Solve for Payment:

- 1. Clear all registers. [SHIFT][C ALL]
- 2. Store the amount of the loan. Amount [PV]
- 3. Store the annual interest rate. Rate [I/YR]
- 4. Store the number of payments. Payment [N]
- 5. Press the payment key. [PMT]

To Amortize the Loan:

- 6. View principal paid in Year 1. [SHIFT][AMORT] [=]
- 7. View interest paid in Year 1. [=]
- 8. View the current loan balance. [=]
- 9. To view the next range of principal, interest, and loan balance, repeat Steps 6-8.

Cash Flow Registers

The cash flow registers allow you to solve for internal rate of return (IRR) and net present value (NPV).

To Solve for IRR or NPV:

- Store the number of periods per year.
 Number [SHIFT][P/YR]
- Store the amount of the initial investment. Amount [CFj]
- Store the amount of the next cash flow and press [CFj] (if the amount entered occurs more than once consecutively, enter the number of times is occurs and press [SHIFT] [Nj]).
 Amount [CFj]
- Repeat step 3 for each cash flow.
- Solve for IRR. [SHIFT] [IRR/YR]

OR

- Store the annual interest rate. Rate [I/YR]
- Solve for NPV. [SHIFT] [NPV]

Practice Problem

You are currently negotiating with a tenant who is interested in leasing 25,600 square feet of vacant space. The tenant has proposed an annual rent of \$22.50 per square foot to be paid monthly, and wants an improvement allowance of \$400,000. In addition, they are asking for free rent for the first year. The lease term is 5 years. The owners' required rate of return is 11% percent. What is the annual effective rent?

	Keystrokes	HP10BII Display
Set to 12 payments per year	12 [SHIFT] [P/YR]	12.00
Clear all data	[SHIFT] [C ALL]	12 P_Yr 0.00
Store Cash Flow 0	400000 [+/-] [CFj]	C-FLOW CF 0 C-FLOW CF -400,000.00
Store Cash Flow 1	0 [CFj]	C-FLOW CF 1 C-FLOW CF 0.00
Repeat Cash Flow 1	12 [SHIFT] [Nj]	C-FLOW N 1 C-FLOW N 12.00
Calculate monthly rent and store as Cash Flow 2	25600 [x] 22.5 [÷] 12 [=] [CFj]	48,000.00 C-FLOW CF 2 C-FLOW CF 48,000.00
Repeat Cash Flow 2	4 [x] 12 [SHIFT] [Nj]	C-FLOW N 2 C-FLOW N 48.00
Store I/YR	11 [I/YR]	11.00
Solve for NPV	[SHIFT] [NPV]	1,264,566.51
Store payments per year	5 [SHIFT] [x P/YR]	60.00
Solve for payment	[PMT]	-27,494.74
Solve for annual payment per square foot	[÷] 25600 [x] 12 [=]	-12.89

The annual effective rent is \$12.89 per square foot.



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