HP 10BII

Financial Calculator

QUICK REFERENCE GUIDE

Basics

Keys:	Display:	Description:
ON	0.00	Turns calculator on.
▢[orange label]	0.00	Displays shift annunciator (**SHIFT**).
▢	0.00	Discontinues shift.
①②③◄	12_	Erases last character.
C	0.00	Clears display.
▢CLΣ	0.00	Clears statistics memory.
▢C.ALL	0.00	Clears all memory.
▢OFF		Turns calculator off.

Percentages

%	Percent.	MAR	Margin
CST	Cost.	MU	Markup
PRC	Price.		

Add 15% to $17.50.

Keys:	Display:	Description:
①⑦·⑤⓪⊕	17.50	Enters number.
①⑤%=	20.13	Adds 15%.

Find the margin if cost is $15.00 and selling price is $22.00.

①⑤CST	15.00	Enters cost.
②②PRC	22.00	Enters price.
MAR	31.82	Calculates margin.

If the cost is $20.00 and the markup is 33%, what is the selling price?

②⓪CST	20.00	Enters cost.
③③MU	33.00	Enters markup.
PRC	26.60	Calculates price.

Memory Keys

K	Stores a constant operation.
▢M	Stores a value in the M register (memory location).
RM	Recalls a value from the M register.
M+	Adds a value to the number stored in the M register.
▢STO	Stores a value in a numbered register.
RCL	Recalls a value from a numbered register.

Multiply 17, 22, and 25 by 7, storing "× 7" as a constant operation.

Keys:	Display:	Description:
①⑦✕⑦K	7.00	Stores "× 7".
=	119.00	Multiplies 17 × 7.
②②=	154.00	Multiplies 22 × 7.
②⑤=	175.00	Multiplies 25 × 7.

Store 519 in register 2, then recall it.

⑤①⑨▢STO②	519.00	Stores in register 2.
C	0.00	Clears display.
RCL②	519.00	Recalls register 2.

Time Value of Money (TVM)

Enter any four of the five values and solve for the fifth.
A negative sign in the display represents money paid out; money received is positive.

N	Number of payments.
I/YR	Interest per year.
PV	Present value.
PMT	Payment.
FV	Future value.
▢BEGIN/END	Begin or End mode.
▢P/YR	Number of payments per year mode

If you borrow $14,000 (PV) for 360 months (N) at 10% interest (I/YR), what is the monthly repayment?

Set to End mode. Press ▢BEGIN/END if **BEGIN** annunciator is displayed.

Keys:	Display:	Description:
①②▢P/YR	12.00	Sets payments per year.
③⑥⓪N	360.00	Enters payments.
①⓪I/YR	10.00	Enters interest per year.
①④⓪⓪⓪PV	14,000.00	Enters present value.
⓪FV	0.00	Enters future value.
PMT	−122.86	Calculates payment if paid at end of period.

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TVM What if…?

It is not necessary to reenter TVM values for each example. Using the values from the previous page, how much can you borrow if you want a payment of $100.00?

Keys:	Display:	Description:
① ⓪ ⓪ ⊝ PMT	−100.00	Enters new payment amount. (Money paid out is negative.)
PV	11,395.08	Calculates amount you can borrow.

How much can you borrow at a 9.5% interest rate?

Keys:	Display:	Description:
⑨ • ⑤ I/YR	9.50	Enters new interest rate.
PV	11,892.67	Calculates new present value for $100.00 payment and 9.5% interest.
① ⓪ I/YR	10.00	Reenters original interest rate.
① ④ ⓪ ⓪ ⓪ PV	14,000.00	Reenters original present value.
PMT	−122.86	Calculates original payment.

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Amortization

After calculating a payment using Time Value of Money (TVM), enter the periods to amortize and press ▭ AMORT. Then press = to continually cycle through the interest, principal, and balance values (indicated by the **PRIN**, **INT**, and **BAL** annunciators respectively).

Using the TVM example from the previous page, amortize a single payment and then a range of payments.

Amortize the 20th payment of the loan.

Keys:	Display:	Description:
② ⓪ INPUT	20.00	Enters period to amortize.
▭ AMORT	20 – 20	Displays period to amortize.
=	−7.25	Displays principal.
=	−115.61	Displays interest. (Money paid out is negative.)
=	13,865.83	Displays balance.

See example on page 9.

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Amortize the 1st through 12th loan payments.

① INPUT ① ②	12_	Enters range of periods to amortize.
▭ AMORT	1 – 12	Displays range of payments.
=	−77.82	Displays principal.
=	−1,396.50	Displays interest.
=	13,922.18	Displays balance.

Interest Rate Conversion

To convert between nominal and effective interest rates, enter the known rate and the number of periods per year, then solve for the unknown rate.

▭ NOM%	Nominal interest percent.
▭ EFF%	Effective interest percent.
▭ P/YR	Periods per year.

See example on page 10.

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Find the annual effective interest rate of 10% nominal interest compounded monthly.

Keys:	Display:	Description:
① ⓪ ▭ NOM%	10.00	Enters nominal rate.
① ② ▭ P/YR	12.00	Enters payments per year.
▭ EFF%	10.47	Calculates annual effective interest.

IRR/YR and NPV

▭ P/YR	Number of periods per year (default is 12).
CFj	Cash flows, up to 15 (*j* is the cash flow *number*).
▭ Nj	Number of consecutive times cash flow *j* occurs.
▭ IRR/YR	Internal rate of return per year.
▭ NPV	Net present value.

See example on page 11.

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If you have an initial cash outflow of $40,000, followed by monthly cash inflows of $4,700, $7,000, $7,000, and $23,000, what is the *IRR/YR*? What is the *IRR* per month?

Keys:	Display:	Description:
▭ C ALL	0.00	Clears all memory.
① ② ▭ P/YR	12.00	Sets payments per year.
④ ⓪ ⓪ ⓪ ⓪ ⊝ CFj	−40,000.00	Enters initial outflow.
④ ⑦ ⓪ ⓪ CFj	4,700.00	Enters first cash flow.
⑦ ⓪ ⓪ ⓪ CFj	7,000.00	Enters second cash flow.
② ▭ Nj	2.00	Enters number of consecutive times cash flow occurs.
② ③ ⓪ ⓪ ⓪ CFj	23,000.00	Enters third cash flow.
▭ IRR/YR	15.96	Calculates *IRR/YR*.
÷ ① ② =	1.33	Calculates *IRR* per month.

What is the *NPV* if the discount rate is 10%?

① ⓪ I/YR	10.00	Enters *I/YR*.
▭ NPV	622.85	Calculates *NPV*.

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Statistics

▭ CLΣ	Clear statistical registers.
number Σ+	Enter one-variable statistical data.
number ▭ Σ−	Delete one-variable statistical data.
number1 INPUT number2 Σ+	Enter two-variable statistical data.
number1 INPUT number2 ▭ Σ−	Delete two-variable statistical data.
▭ x̄,ȳ ▭ SWAP	Means of *x* and *y*.
▭ x̄w	Mean of *x* weighted by *y*.
▭ Sx,Sy ▭ SWAP	Sample standard deviations of *x* and *y*.
▭ σx,σy ▭ SWAP	Population standard deviations of *x* and *y*.
y-value ▭ x̂,r ▭ SWAP	Estimate of *x* and correlation coefficient.
x-value ▭ ŷ,m	Estimate of *y*.
⓪ ▭ ŷ,m ▭ SWAP	*y*-intercept and slope.

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