QUALIFIER PLUS® IIIFX

ADVANCED REAL ESTATE FINANCE CALCULATOR with CASH FLOW and COMPLETE BUYER QUALIFYING

Model 3430 Pocket Reference Guide



QUALIFIER PLUS® IIIFX

The QUALIFIER PLUS IIIFX lets you pre-qualify clients and compute financial problems with ease!

Quickly Solve:

- Time-Value-of-Money (TVM) Problems: Find Loan Amount, Term, Interest, Payment, Future Value
- Restricted/Unrestricted Qualifying
- Required Income/Debt
- Qualifying Using Flexible Ratios
- Property Tax and Insurance, Mortgage Insurance
- P&I and PITI payment
- · Sales Price and Down Payment
- · Adjustable-Rate Mortgages
- Amortization and Remaining Balance
- Bi-Weekly Loans
- Date Math Problems

New!

- 80:10:10/80:15:5 Combo loans
- APR, including Mortgage Insurance
- Cash Flow/Investment Keys
- Income Tax Savings and Rent vs. Buy
- Interest-Only Payments
- · LTV, Month Offset, Prepaid Interest

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KEY DEFINITIONS

<u>Note</u>: This is a short "reference" guide. Please see your Large User's Guide for details.

Colon separator (used for date, ARM adjustment, qualifying ratios and

combo loans)

Backspace key; for backing up/deleting wrong entry

Recalls or re-displays a value when followed by a chosen key (e.g., Rel m) will display current interest

value)

M+ Memory Function:

 M+ Adds value on display to Memory

 Shiff M+ Subtracts value on display from Memory

- Rcl M+ Recalls Memory Total

- Rcl Rcl Recalls and clears Memory Total

Shiff	Sets number of displayed decimal places and activates 2nd functions
Shift =	Change sign
Shift X	Clear All (Note: perform with caution as it will reset calculator to defaults)
Shift =	Preference mode (see Large User's Guide for details)
Shiff ÷	Payments per year (Default 12, for monthly)
Shiff -	Periodic (sets per Period rather than per Year)
Shift 000	Month offset
Shift :	Odd-days interest
Shift +	Tax bracket %
Shift Pmt	Estimated income tax savings/after-tax payment
Shift Price	Rent vs. Buy
Loan Amt	Loan amount
Pmt	P&I, PITI, total payment, and interest-only payment

Number of years Term Annual interest rate or Int cash flow desired rate of return Shift Loan Future value Shift Int APR (annual percentage rate), including mortgage insurance, if entered Price Property price Dn Pmt Down payment Shift Term Bi-Weekly loan Amort Amortization function Shift Amort Remaining balance ARM Adjustable-rate mortgage Shift ARM ARM decreasing interest % adjustment Shiff % ARM lifetime interest cap% Qual 1 Qualify based on 28%-36% Qual 2 Qualify based on 29%-41% Inc Annual income

(e.g., car payment) Shift (7) Property tax (enter as percent or dollar amount) Shift (8) Property/homeowner's insurance (enter as percent or dollar amount) Shift (9) Mortgage insurance (enter as percent or dollar amount) Exp Monthly expenses (such as homeowner's association dues) Shift Dn Pmt For entering (or finding) Loan-to-Value ratio and computing respective Down Payment and/or Loan Amount 1st Int: Used to enter 1st TD interest:term for Combo Loans Shift 1st Int Used to enter 2nd TD interest:term for Combo Loans

Long-term. monthly debt

Debt

Combo loan function for an 80:10:10 LTV* loan; calculates 1st/2nd TD values and compares them to entered fixed-rate loan w/mortgage insurance.

*You may enter any LTV prior to pressing this key (e.g., LTV of 90:5, enter ⑨ (0) € (5) ∰

Shift 60000 Combo loan function for an 80:15:5 loan; same func-

tion as above key

Allows entry of up to 20 cash flows. Use the Shift

to label as positive or

negative

Frequency — labels a cash flow that is consecutively

repeating

IRR

Multi-function key that computes, upon consecutive presses: IRR%, NPV & NFV used for cash flow analysis. (The greater the IRR and NPV, the more attractive the investment)

Shiff 6 Clear cash flows

EXAMPLES

Date Example

If a 45-day escrow begins June 15 2004, what is the closing date and day?

STEPS	KEYSTROKES		DISPLAY
Clear	On/C On/C		0.00
Enter month	6 8		6-
Enter day	1 5 8		6-15-
Enter year	0 4		6-15-04
Add 45 days	4 5 6	FRI	07-30-04

Monthly Mortgage (P&I) Payment

Find the monthly (P&I) payment on a 30-year, fixed-rate loan of \$265,000 at 6.75% annual interest:

STEPS	KEYSTROKES	DISPLAY
Clear Enter loan	On/C On/C 2) (6) (5) (000	0.00
Enter loan		265,000.00
Enter term	3 0 Term	30.00
Enter interest Find P&I	6 • 7 5 Int	6.75
payment	Pmf	1.718.78

Loan Amount

Approximately how much can you borrow if the interest rate is 6.5% on a 30-year loan and you can afford \$1,500 in monthly payments? What if the interest rate is lowered to 6%?

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter interest	6 • 5 m	6.50
Enter term	3 0 Term	30.00
Enter paymen	t 1 5 0 0 0	m 1,500.00
Find loan	Loan Amt	237,316.23
Enter new inte	rest	
rate	6 Int	6.00
Find new loan		
amount	Loan Amt	250,187.42

Loan Amount Based on Sales Price and Down Payment

Find both \$ down payment and loan amount if the sales price is \$375,500 and you're planning to put 20% down:

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter price	3 7 5 5 0	0 Price
•		375,500.00
Enter down%	2 0 Dn Pmt *	20.00
Find down\$	Dn Pmt	75,100.00
Find loan	Loan Amt	300,400.00

^{*}You do not have to label the value as a percent.

Interest Rate

Find the interest rate on a mortgage if the loan amount is \$98,500, term is 30 years and payment is \$1,150 a month:

and payment is \$1,150 a month:		
STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter loan	98500	98,500.00
Enter term	3 0 Term	30.00
Enter paymen	t 1 1 5 0 Pmt	1,150.00
Find annual		
interest	Int	13.78
Find periodic		
interest	Int	1.15

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Term of a Loan

How long does it take to pay off a loan of \$15,000 at 10% interest if you make payments of \$200 each month?

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter loan	1 5 000 Learn	15,000.00
Enter interest	1 0 Int	10.00
Enter paymen	t 2 0 0 Pmf	200.00
Find term in		
years	Term	9.85
Number of		
months	Term	118.19

Setting Tax and Insurance

Enter an annual property tax rate of 1.5%, a hazard insurance rate of 0.25% and a mortgage insurance rate of 0.50%:

STEPS	KEYSTROKES	DISPLAY
	1 • 5 Shiff 7	1.50
Enter insuran		
	• 2 5 Shiff 8	0.25
Enter mortgag		
insurance%	5* (•) (5) (0) (Shift) (9)	0.50

*Note: Do not label as a percent, or use the **②** key; it is automatically registered as a percent.

PITI Payment, Total Payment and Interest-Only Payment

Term: 30 years
 Interest: 6.25%

Sales price: \$325,000

Down payment: 5%

• Property taxes: 1.3%

• Property insurance: 0.25%

Mortgage insurance: 0.45%

Find the Monthly PITI payment:

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter term	3 0 Term	30.00
Enter interest	6 • 2 5 m	6.25
Enter price	3 2 5 000 Pri	ce
•	3	325,000.00
Enter Down%	5 Dn Pmt	5.00
Enter tax%	1 • 3 Shift 7	1.30
Enter insurance	e%	
	• 2 5 Shiii 8	0.25
Enter MI%	• 4 5 Shift 9	0.45
Find loan	Loan Amt	308,750.00
Find P&I		
payment	Pmt "run"	1,901.03
Find PITI		,
payment	Pmt	2,436.60
— DO NOT	CLEAR CALCUL	ATOR —

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Find the total payment, if you estimate homeowner's association fees at \$80/month. Also find the interest-only payment:

STEPS	KEYSTROKES	DISPLAY
Enter expenses	8 0 Exp	80.00
Find total payment	Pmt Pmt Pmt	2,516.60
Find interest-or payment	only Pmi	1,608.07

Quarterly Payment

Find the quarterly payment on a 10-year loan of \$15,000 with an annual interest rate of 12%:

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Set to 4 paym	ents	
per year	4 Shift ÷	4.00
Enter loan	1 5 000 Learn	15,000.00
Enter term	1 0 Term	10.00
Enter interest	1 2 Int	12.00
Find quarterly	P&I	
payment	Pmf	648.94
Return to 12 p		
per year	1) 2) Shiff 🚓	12.00

Amortization

Loan: \$300,000Term: 30 yearsInterest: 7.5%

Find total interest and principal for the life of the loan:

0. 1		
STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter loan	300000	Loan Amt
		300,000.00
Enter interest	7 • 5 Int	7.50
Enter term	3 0 Term	30.00
Find P&I pmt	Pmt	2,097.64
Find # pmts	Amort	1-360
Find total int.	Amort	455,151.67
Find total prin.		300,000.00
Find total pmts	Amort	755,151.67

Find all values for the first year:

i iiiu aii vaiues	ioi ille liisi yeal	•
Enter Year 1	1 Amort	1-12
Find total int.	Amort	22,406.22
Find total prin.	Amort	2,765.50
Find total pmts	Amort	25,171.72
Find balance	Amort	297,234.50
Rem. term	Amort	29.00
Tax deduct.	Amort	6,273.74

<u>Note</u>: Based on default 28% tax bracket and loan starting in January. To change these values, see Large User's Guide.

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Bi-Weekly Loans

 Loan: \$212,500 Term: 30 years Interest: 7.85%

Find the Bi-Weekly term, savings, interest

savings, total cost, and Bi-Weekly payment:			
STEPS	KEYSTROKES	DISPLAY	
Clear	On/C On/C	0.00	
Enter loan	21250	O Loan Ami	
_		212,500.00	
	(3) (0) Term	30.00	
	7 • 8 5 Int		
Find payment		1,537.09	
Find Bi-Weekl	Shift Term	22.97	
Find total inter	Term	94,305.23	
Find total inter paid Find total	Term	246,545.97	
principal Find total principal		212,500.00	
interest Bi-Weekly P&I	Term	459,045.97	
payment	Pmt	768.54	

Appreciation

What will a \$350,000 home be worth in 3 years, figuring an inflation or appreciation rate of 6%?

STEPS	KEYSTROKES	DISPLAY	
Clear	On/C On/C	0.00	
Set to 1 paym	ent		
per year	1 Shiff ÷	1.00	
Enter present			
value	3 5 0 000	Loan Amt	
		350,000.00	
Enter term	3 Term	3.00	
Enter appreciation			
rate	6 Int	6.00	
Find future val	lue		
(FV)	Shift Loan Amt	416,855.60	
Reset paymer	nts		
per year	1 2 Shiff #	12.00	

Retirement Savings

If you invest \$10,000 today and \$250 in monthly deposits, what will it be worth in 30 years at 7% interest*?

STEPS	KEYSTROKES	3	DISPLAY
Clear	On/C On/C		0.00
Recall paymen	ts		
per year	RcI ÷		12.00
Enter deposit	1000	Loan Amt	10,000.00
Enter term	3 0 Term		30.00
Enter interest	(7) Int		7.00
Find FV	Shift Loan		81,164.97
Add to M+	M+	M	81,164.97
Clear	On/C On/C		0.00
Enter payment	2 5 0 Pm	nt	250.00
Find FV	Shift Loan	-:	304,992.75
Change minus	sign to		•
plus sign	Shift =	;	304,992.75
Add to M+	M+	M :	304,992.75
Find total and			•
clear	RcI RcI	;	386,157.72

^{*}If you deposit funds at the beginning of the month, you must set to BEG Mode (see Large User's Guide/Preference Settings).

APR and Total Finance Charges. Including Mortgage Insurance

 Loan: \$250.000 Term: 30 years

Interest: 7%

Find PIMI pmt

Cost: 1.5 points + \$550

Mortgage insurance/MI: \$1,200/year STEPS KEYSTROKES DISPLAY

On/C On/C Clear 2 5 0 000 8 Enter loan

0.00 250,000.00 Enter term (3) (0) Term 30.00 Enter interest 7) Int 7.00 Find P&I pmt Pmt 1.663.26 Enter MI \$ (1) (2) (0) (0) Shift (9)

1.200.00 Find Loan Costs: Rci Loan Recall loan 250.000.00 Find points \boxtimes 1 • 5 \boxtimes \square 3.750.00 Add fees and ♠ (5) (5) (0) ♠ find total 4.300.00 Find APR Shift Int 7.77 389.072.25 Find total chas. Int Amt. financed Int 245.700.00 Total cost Int 634,772.25 1.663.26 P&I payment Int 100.00 Monthly MI Int

1.763.26

Int

ARM Payment — Lifetime Cap

- Loan: \$230,000Term: 30 yearsInterest: 7.25%
- Lifetime cap: 4%
- ARM Interest Adjustment: 1% per year

Find the adjusted ARM payments through year six:

STEPS	KEYST	ROKES		DI	SPLAY
Clear	On/C	On/C			0.00
Enter loan	2 3	0 0	Loar Ami	3	
			2	30,0	00.00
Enter term	30	Term		;	30.00
Enter interest	7.	2 5 n)		7.25
Find initial mor	nthly P	&I			
payment	Pmt	"rui	n"	1,5	69.01
Enter interest					
cap	4 Sh	íft %	С	ΑP	4.00
Enter ARM					
parameters	1 8	1 ARM	1	.00 -	1.00
Find 1st "adjus	sted"				
payment	ARM	"run"	1	1,7	24.90
Find 2nd "adju	sted"				
payment	ARM		2	1,8	83.17
				(C	ont'd)

(Cont'd)

STEPS	KEYSTROKES	DISPLAY
Find 3rd "adjus		
payment	ARM	3 2,043.26
Find 4th "adjus	sted"	
payment	ARM 4	2,204.68 M*
Find 5th "adjus	sted"	
payment	ARM 5	2,204.68 M*
Find principal	at start of	
6th year	Rcl Loan	220,856.34
Recall current	interest	
rate	RcI Int	11.25
Recall remaini	ing	
term	RcI Term	25.00
Clear Cap	O Shift %	CAP 0.00

*Note that the payment for 4th and 5th adjustments (corresponding to the 5th and 6th years) is the same because the lifetime cap was reached on the 4th adjustment. An "M" for "maximum" will appear in the display once the Cap is reached.

Estimated Tax Savings

- Loan: \$150,000
- Buyer's tax bracket: 28%
- Term: 30 years
 - Interest: 8%
- Property taxes: \$1,500
- Property insurance: \$250

Note: This is an estimate only.

What is this buyer's estimated income tax savings and "after tax" payment?

STEPS	KEYSTROKES	;	DISPLAY
Clear	On/C On/C		0.00
Enter term	3 0 Term		30.00
Enter interest	8 Int		8.00
Enter tax\$	1500	Shift (7)	1,500.00
Enter insurance			
	2 5 0 Si		250.00
Enter loan	15000		
		150	,000.00
Find P&I pmt	Pmt "	run" 1	,100.65
PITI payment	Pmf	1	,246.48
Enter tax			
bracket	2 8 Shift	Pmt	28.00
Find annual ta	X		
savings	Pmf	3	3,767.32
Monthly tax			
savings	Pmt		313.94
Net payment	Pmt		932.54

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Rent vs. Buy

• Term: 30 years
• Interest: 7.5%
• Down: 10%

Tax: 1.25%
Insurance: 0.35%
Tax bracket: 30%

If your client is currently renting a home for \$1,250/month, find the comparable home sales price and loan amount that he or she could afford:

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter term	3 0 Term	30.00
Enter interest	7 • 5 Int	7.50
Enter down%	1 0 Dn Pmf	10.00
Enter tax%	1 • 2 5 Sh	1.25
Enter insurance	e%	
	• 3 5 Shift (0.35
Tax bracket%		30.00
	nd comparable	
home price	1 2 5 0 Sh	ft Price
		221,894.90
Find comparal	ole Ioan	
amount	Price	199,705.41
Find PITI pmt		1,692.23
Find annual ta	X	
savings	Price	5,306.75
Monthly tax		
savings	Price	442.23
Reset tax%	2 8 Shiff +	28.00

Setting Qualifying Ratios

Enter new qualifying ratios of 30% for Income and 38% for Debt in Qual 1:

STEPS KEYSTROKES DISPLAY
Clear On/C On/C 0.00
Enter qualifying ratios 3 0 3 3 8 00 3 3 0.00-38.00

Return ratios to defaults

2 8 3 6 Qual 1

<u>्यवा</u> 28.00-36.00

Qualifying Loan Amount

- Buyer's income: \$75,000
- Monthly debt: \$500
- Down\$: \$5,000
- Property taxes: 1.5%
 - Property insurance: 0.25%
- Mortgage insurance: 0.6%
- Monthly association dues: \$50
- Term: 30 years
- Interest: 7.5%
- Qualifying ratios: 28%: 36%

(Cont'd)

Find the Qualifying Loan Amount, Price and Total Payment:

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter income	7 5 000 0	75,000.00
Enter debt	5 0 0 Debi	500.00
Enter down\$	5 000 Dn Pmf	5,000.00
Enter tax%	1 • 5 Shift	7 1.50
Enter ins.%	• 2 5 Shiff	8 0.25
Enter MI%	• 6 Shift 9	0.60
Enter associat	ion	
dues	5 0 Exp	50.00
Enter interest	7 • 5 m	7.50
Enter term	3 0 Term	30.00
Display ratios	Qual 1	28.00 - 36.00
Find qualifying	loan	
amount	Qual 1	189,119.31
Find price	Price	194,119.31

-DO NOT CLEAR CALCULATOR -

Find the monthly P&I payment and total payment:

paymont.				
STEPS	KEYSTROKES	DISPLAY		
P&I payment	Pmt	1,322.35		
PITI payment	Pmf	1,700.00		
Total payment	Pmt	1,750.00		

"Restricted" vs. "Unrestricted" Qualifying

Buyer's income: \$68,000

Monthly debt: \$750

Down\$: \$5,000

Property taxes: 1.5%

Property insurance: 0.25%

Mortgage insurance: 0.6%

• Monthly association dues: \$50

Term: 30 yearsInterest: 7.5%

Qualifying ratios: 28%: 36%

Find the "Restricted" qualifying loan amount, actual ratios, "Unrestricted" loan amount and maximum allowable debt. (Re-enter 0.6% mortgage insurance rate, \$50 association dues and \$5,000 down.)

<u>Note</u>: If you are not continuing from the previous problem, you'll need to re-enter interest, term, tax/insurance.

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Recall interes	t Rci Int	7.50
Recall term	RcI Term	30.00
Recall propert	ty	
tax%	Rcl (7)	1.50
		(Cont'd)

(Cont'd)

STEPS	KEYSTROKES	DISPLAY
Recall propert	y	
insurance%	RCI 8	0.25
Re-enter MI%	• 6 Shift 9	0.60
Re-enter home	eowner's	
dues	5 0 Exp	50.00
Enter down	5 000 Dn Pmt	5,000.00
Enter income	6 8 000 Inc	68,000.00
Enter monthly		
debt	7 5 0 Debt	750.00
Display qualify	ring	
ratios	Qual 1	8.00 - 36.00
Find "Restricte	ed" qualifying loa	เท
amount	Qual 1	137,725.41

— DO NOT CLEAR CALCULATOR — (Cont'd)

debt

KEYSTROKES

DISPLAY

Find actual ratios

Qual 1

Qual 1

22.76-36.00

Find "Unrestricted" loan

170.870.75 LA INC* amount Qual 1 Find maximum allowable monthly

453 33

*Note: The "INC" tells you this unrestricted Qualifying Loan Amount is based on the buver's Income Ratio — therefore, the restricted Qualifying Loan Amount is based on the buyer's Debt Ratio. This means that if they pay off their monthly debt (to \$453/month or lower) they may qualify for a mortgage loan of approximately \$170,000 or more and afford a \$175,000 home (if they put approximately \$4-\$5K down).

Qualifying Comparison (2 Ratios at Once)

- Buyer's income: \$55,000
- Monthly debt: \$500
- Property taxes: 1.25%
- Property insurance: 0.3%Mortgage insurance: 0.45%
- . Monthly association dues: \$50
- Term: 30 yearsInterest: 6.25%

Qualify this buyer based on both 28%:36% and 29%:41% ratios:

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter income	5 5 000 Inc	55,000.00
Enter debt	5 0 0 Debt	500.00
Enter tax%	1 • 2 5 Sh	1.25
Enter insurance	e%	
	• 3 Shift 8	0.30
Enter MI%	• 4 5 Shift	9 0.45
Enter monthly	association	
dues	5 0 Exp	50.00
Enter term	3 0 Term	30.00
Enter interest	6 • 2 5 m	6.25
Display Qual 1		
ratios	Qual 1	28.00-36.00

(С	О	n	t	'n
١	_				

STEPS	KEYSTRO	OKES	DISPLAY
Find Qual 1 q loan Find Qual 1 P	Qual 1	"run"	140,595.95
payment	Pmt		865.67
Find Qual 1 P Payment Find total			1,100.00
payment	Pmt		1,150.00
— DO NOT	CLEAR	CALC	JLATOR —
STEPS	KEYSTRO	OKES	DISPLAY
Display Qual	Qual 2		29.00-41.00
Find Qual 2 q loan Find Qual 2 P	Qual 2	"run"	163,496.04
payment	Pmt		1,006.67
Find Qual 2 P payment Find total			1,279.17
payment	Pmt		1,329.17

Income Required and Allowable Monthly Debt

Sales price: \$300,000

Down%: 20%

Property taxes: 1.5%

Property insurance: 0.25%Mortgage insurance: 0%

Term: 30 years

Interest: 5.88%

Find the income required to finance a \$300,000 home and the maximum allowable debt.

Note: Clear mortgage insurance rate to zero, as the down payment is 20%.

STEPS	KEYSTROKES	DISPLAY
Clear	On/C On/C	0.00
Enter interest	5 • 8 8 m	5.88
Enter term	3 0 Term	30.00
Enter tax%	1 • 5 Shift (7	7 1.50
Enter insurance	e%	
	• 2 5 Shift (8	0.25
Clear MI%	O Shift 9	0.00
Enter price	300000	Price
		300,000.00
Enter down%	2 0 Dn Pmf	20.00
Find down\$	Dn Pmt	60,000.00

STEPS	KEYSTROKES	DISPLAY
Find loan	Loan Amt	240,000.00
Display qualify ratios	ving Qual 1	28.00 - 36.00
Find income	addi 1	20.00 - 30.00
required	Qual 1	79,626.76
Find maximum	n allowable m	onthly
debt	Qual 1	530.85
Find P&I		
payment	Pmt	1,420.46
Find PITI		
payment	Pmt	1,857.96

80:10:10 Combo Loan vs. Fixed-Rate Loan with Mortgage Insurance

Compare an 80:10:10 Combo Loan vs. a Fixed-Rate loan w/mortgage insurance. The loan parameters are:

FIXED

	w/PMI	(1st/2nd)	
Loan	250,000	250,000	
Interest	6.50%	6.00% -	
		8.50%	
Term	30	30 year–	
		15 year	
PMI	0.62%		
LTV	95%	80% –	
		10%	
STEPS	KEYSTROKES	DISPLAY	
1. Enter Fixed-Rate Loan Values and Find Total Payment:			
Clear	On/C On/C	0.00	
Enter loan	2 5 0 000	Loan Amt	
		250,000.00	

30.00 0.62 (Cont'd)

6.50

(6) (•) (5) Int

• 6 2 Sati 9

(3) (0) Term

Enter interest

Enter term Fnter MI%

STEPS	KEYSTROKES	DISPLAY
Clear Tax Clear	O Shift 7	0.00
Insurance Solve for	O Shift 8	0.00
payment Solve for PI		1,580.17
PMI)	Pmt	1,709.34
Enter 1st TD	oo Loan Values: Interest 6 3 0	6.00-30.00
Enter 2nd Ti and Term	D Interest 8 • 5 • 1 (-
Find blended 1st/2nd TD Find equival	b Loan Values: d interest rate fo min ent interest rate oan with mortga	6.18 for
insurance		7.27
payment	80:10:10	1,605.87
		(Cont'd)

'Cont'	C

STEPS	KEYSTROKES	DISPLAY
	ent payment fo	
	o <u>an w</u> ith morto	
insurance		1,709.34
	thly savings o	
fixed-rate I	oan with morto	jage
insurance	80:10:10	103.46
Display adju	sted 2nd term	
(if savings a	pplied to	
2nd TD)	80:10:10	8.71
Find 1st TD	loan	
amount	80:10:10	222,222.22
Find 2nd TD	loan	
amount	80:10:10	27,777.78
Find 1st TD		
payment	80:10:10	1,332.33
Find 2nd TD	1	
payment	80:10:10	273.54
Redisplay		
LTV	80:10:10	80.00-10.00

*Use Shift @@ for 80:15:5 loans. See Large User's Guide for entering other LTV Combo loans.

Cash Flow

A real estate investor wishes to purchase a home for \$225,000 and rent it out. He'd like a return of 9% and expects to sell it after 5 years for \$275,000. He expects the annual cash flows below. Find the IRR, NPV & NFV.

•		
	Annual Cash Fl	ow
Year 1	\$16,000	
Year 2	\$16,600	
Year 3	\$16,900	
Year 4	\$17,200	
Year 5	\$275,000	
STEPS	KEYSTROKES	DISPLAY
Clear CF	Shift 6	0.00
Set 1 payment		
per year	1 Shiff 🚓	1.00
Enter initial inv	estment as	
cash outlay	2 2 5 000 St	iff — Cash Flow
	C-0 -2	225,000.00
Enter 1st CF	16000	
		16,000.00
Enter 2nd CF	16600	
	C-2	16,600.00
		(Cont'd)

(Cont a)

(Cont'd)

STEPS	KEYSTROKES	DISPLAY
Enter 3rd CF	169006	Cash Flow
		16,900.00
Enter 4th CF	17200	
		17,200.00
Enter last CF	275 m	
	C-5	275,000.00
Find IRR	IRR	9.83%
Enter desired rate of return and		
find NPV	9 Shift IRR	7,616.73
Find NFV	IRR	11,719.29
Re-display desired rate		
of return	IRR	9.00%
Clear registers	Shift X	0.00

Analysis: The investment is attractive, as the IRR is greater than the desired rate of return.

Note: See Large User's Guide for more examples.

APPENDIX

Default Settings

- 12 Periods per Year
- · End Mode
- Property Tax/Insurance = Clears Upon Off
- Mortgage Insurance = Clears upon On/C On/C
- Month Offset of January (1)
- Two Fixed Decimal Places
- Two Fixed Decimal Flaces
 Amortization Range =
- Specified Year (Ent-Ent)Qual 1 Ratios = 28%-36%
- Qual 1 Hatios = 28%-30%
 Qual 2 Ratios = 29%-41%
- Qualifying Ratios Displayed 1st

Decimal Place Setting

To set the number of decimal places displayed:

- Shiff 5 0.00000 Shiff 4 0.0000
- Shiff (3) 0.000
- Shiff 2 0.000
- Shiff 1 0.0
 - Shiff 0 0.
 - Shiff floating point

Preference Settings

To access the Preference Mode, press fifth, then then keep pressing to toggle through the preference settings listed. Press the key to advance through the sub-settings. Use the key to back up within the sub-settings. See Large User's Guide for details.

Batteries

Replacing the Batteries: Slide open and remove the battery door (located on upper backside of calculator). Remove the old batteries. Insert two new LR44 button-cell batteries, making sure they're facing positive-side (+) up. Close the battery door.



Reset

You may at times want to reset your calculator to its factory settings (i.e., reset all registers and Preference Settings to their original default values). To do this, turn off the calculator, hold down the

★ key, and then turn it back on.



This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of FCC rules.

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