

LOAN ANALYZER

CREATIVE

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OVERVIEW

Loan Analyzer is a single program which runs in any Atari 400/800 computer with a minimum of 16K RAM. It is available on either cassette or diskette (the diskette version requires enough extra RAM to run the DOS). The program allows you to calculate monthly payments, the term of a loan, the maximum amount you can borrow, or the loan's annual percentage rate. In order to calculate any of these numbers, you'll need to supply it with the other three.

Once you've settled on a particular loan you can calculate and display an Amortization Table. This table shows you how much the loan is costing on a monthly basis. It will calculate the interest on each payment, the total interest paid to date, the principal amount of each payment, and the remaining balance of the loan. In addition, if you have a properly interfaced 80-column printer, you can print this table for any range of payments.

A SHORT DISCUSSION OF LOANS

The program handles calculations for certain specific types of loans. The payments are assumed to be made once per month (12 times per year). The annual percentage rate can be anywhere between .01% and 99.99%; if your interest rate is larger than this, your loan shark will probably repossess your Atari if you fall behind. If your interest rate is smaller than this, you have what is called an "interest free loan" and really shouldn't care what the interest is.

The term of the loan can be from 1 to 999 months. If the term of the loan is in weeks or years, you'll have to convert it to months before entering it into the program.

Finally, the program calculates loan figures for "fully amortized loans" only. This means that, in order to calculate either the principal, monthly payment, term or interest rate, it assumes you will be completely paying off the loan in the specified term.

If you have a partially amortized loan (one with a balloon payment at the end) you can still calculate an amortization table for the loan. The Loan Balance at the end of the term will represent your balloon payment (or the unpaid balance of the loan).

LOADING INSTRUCTIONS - CASSETTE

To load the program, first place the tape in the cassette unit. Rewind the tape completely, and then type CLOAD and press the RETURN key. The Atari will beep once; press the PLAY button on the tape recorder and then press the RETURN key. The computer will load the program. After the program is done loading, the Atari displays READY. Type RUN and press RETURN.

If you should get an error while loading, the computer will stop and display an error message. You should rewind the tape and repeat the above procedure. If Loan Analyzer keeps failing to load properly, you may have your cassette unit located too close to your TV; try moving the cassette unit away from the TV and start the load procedure again. If this doesn't work, you may have an out-of-alignment cassette unit. Take the cassette unit and tape to your Atari dealer and have him check the unit.

In the unlikely event that the Loan Analyzer tape is bad, return it to your local dealer or return it to Creative Software and it will be replaced free of charge.

LOADING INSTRUCTIONS - DISK

To load the program from disk, be sure that the disk drive is connected and turned on, and the Basic Language cartridge is in place. Place the Loan Analyzer diskette in the disk drive, and turn on the computer. After the message READY appears, type LOAD "D:LOANS" and press RETURN. After the program has finished loading, type RUN and press RETURN.

If you should get a load error, try turning off the entire system and repeating the above procedure. If the program still fails to load properly, return the diskette to your dealer or Creative Software, and it will be replaced free of charge.

When the program is first run, a (very brief) copyright message is flashed and the screen displays the following:

YOU CAN:

- 1. ENTER/CALCULATE LOAN FIGURES
- 2. DISPLAY/PRINT AMORTIZATION TABLE
- 3. END PROGRAM

ENTER NUMBER OF OPTION DESIRED:

The screen display illustrated above is called a "menu" (for obvious reasons). To select the option you wish, you simply type the number (1 through 3) and press the RETURN key. Note that if you try to type a two digit number, only the first digit appears.

Even more interestingly, try typing in a number bigger than 3, or even a letter, and then pressing RETURN. At the bottom of the screen the following message appears:

ILLEGAL ENTRY PRESS RETURN TO CONTINUE

In this way, the program guards against improper entries.

Options 1 and 2 operate quite differently, and are covered below. Option 3 simply ends the program and returns you to BASIC. Since the program is still in memory, you can run it again without loading it from tape or disk.

3.1 Calculating Loan Figures

For fully amortized loans, paid on a monthly basis, you can calculate any one of four loan parameters: (1) the amount you can borrow (called the PRINCIPAL); (2) the monthly payment on the loan; (3) the term of the loan, in months; and (4) the annual percentage rate (APR). Of course, to calculate any of these four numbers, you'll have to supply the other three.

There are some limitations, however. The principal amount must be less than \$1,000,000.00; the monthly payment, less than \$100,000.00; the term of the loan, less than 1000 months; and the APR must fall between .01 and 99.99. If any of the loan figures falls outside these ranges, the program will detect this and warn you about it. The main reason for placing these limits on the figures is that the arithmetic accuracy of the computer is limited, and these ranges insure that the calculations will be correct to the nearest \$0.01.

In order to familiarize you with the procedure used to calculate loan figures, we'll take you step-by-step through a

typical example. So we'll assume you've loaded the program, chosen option ${\bf l}$ in the menu, and are ready to calculate a monthly payment.

EXAMPLE 1: Calculating a monthly payment

Suppose you're buying a boat. You need to borrow \$10,000 to buy it, and the bank will give you a 5 year loan at 15% annual interest. You want to calculate the monthly payment in order to be sure the bank isn't overcharging you.

When you chose option 1, you'll see this submenu:

ENTER/CALCULATE LOAN FIGURES

- 1. PRINCIPAL (HOW MUCH YOU CAN BORROW)
- 2. MONTHLY PAYMENTS
- 3. THE LOAN'S TERM
- 4. APR (ANNUAL PERCENTAGE RATE)

ENTER OPTION (0=EXIT)

Since we need to calculate the monthly payment, type 2 and press RETURN. The screen will be redisplayed as follows:

CALCULATE MONTHLY PAYMENT

- 1. PRINCIPAL AMOUNT
- 2. MONTHLY PAYMENT
- 3. TERM OF LOAN
- 4. INTEREST (APR)

The four numbered items are called "fields." The cursor is waiting immediately following the PRINCIPAL field. The program is asking you to enter the amount of the loan, so type 10000 (no dollar sign or commas) and press RETURN. The cursor moves to the term field. Type 60 (since 5 years = 60 months) and press RETURN. Finally, the cursor moves to the APR field; type 15 (without the % sign) and press RETURN. Very quickly the number 237.89 appears and flashes on the screen. Your monthly payment for this loan is 237.89.

At the bottom of the screen the prompt: PRESS RETURN TO CONTINUE appears. This means that, if you're done examining these figures, you can go on to calculating other monthly payments.

But what if you don't want to calculate any more monthly

payments? Easy - just press RETURN in response to any of the other figures needed (i.e., PRINCIPAL, TERM, or APR). You're instantly returned to the "submenu" to try a different calculation.

EXAMPLE 2: Calculating an annual percentage rate.

Suppose you're buying a car. The auto dealer tells you that the loan is for five years (60 months), the payments are 175.86 per month, and the car has a sticker price of \$5600.00. You want to know what the annual interest rate is on this loan. This is option 4 in the submenu, so type 4 and press RETURN.

The program will ask you for the first three figures, namely the principal (type 5600 and press RETURN), the monthly payment (type in 175.86 and press RETURN), and the term (enter 60 and press RETURN). After a few seconds the number 28.44 is flashed on the screen (this dealer is no friend of yours!)

Rather than going through more specific examples here, you should read the rest of section 3.1 and try a lot of examples for yourself. The next sections tell you how to recover from typing errors and why the Atari will sometimes refuse to calculate certain loan figures.

RECOVERING FROM TYPING ERRORS

You may have already noticed that when the program is running, most of the cursor control keys (up, down, right and left) and the INSERT key no longer function. As a matter of fact, the program will only let you correct a mistake by using the BACK S (backspace) key.

If you make a mistake, use the BACK S key to erase all the characters back to the point you made a mistake. Then reenter the information correctly. Notice that an underline is always displayed when you are entering data, with the cursor at the first position of the underline. This underline indicates the maximum number of characters you can enter on that line. If you try to type in any more, the program just refuses to take them.

Further, if you try to erase more characters than you entered, the program stops you at the beginning. You're only allowed to enter the correct data in the correct locations.

OTHER POSSIBLE ERRORS

Try the following experiment: choose option $\mbox{3}$ (calculating the loan's term) and enter the following amounts:

PRINCIPAL: 100000 MONTHLY PMT: 100 ANNUAL %: 15

The message "Your payment is too low for this loan amount and interest" appears in the middle of the screen. This means exactly what it says — you can't borrow \$100,000 at 15% interest with a payment of \$100 per month, no matter how long you try to pay it!

Now return to the submenu and choose $% \left(1\right) =\left(1\right) +\left(1\right$

PRINCIPAL: 999999.00

TERM: 5 APR: 25

Although the amount 99999.99 appears in the MONTHLY PMT line, the Atari displays OVERFLOW ERROR at the bottom of the screen. This means that the amount to be calculated (in this case, the monthly payment) was larger than the maximum amount allowed. In reality, a \$999,999.00 loan at 25% for five months will cost you well over \$100,000 per month. The program will not calculate monthly payments that high.

It is possible to get overflow errors for the monthly payments, the loan amount, and the annual percentage rate. However, unless you're trying to do this on purpose, you probably will never run into these problems.

3.2 Saving the Loan Figures for Use in Amortization Tables

When you've come up with loan figures that you're satisfied with, you'll probably want to use option 2 in the main menu to display an amortization table. This is easy to do, since the CALCULATE LOAN FIGURES option always remembers the most recent loan figures you entered, even though you have returned to the main menu. So, when you're done with the calculations, just press the RETURN key twice to exit this option, and the main menu will be redisplayed with the loan figures still intact.

3.3 Displaying or Printing an Amortization Table

From the main menu, type 2 and press RETURN. This part starts by displaying the current loan figures with the following screen:

DISPLAY/PRINT AMORTIZATION TABLE

- 1. PRINCIPAL AMOUNT
- 2. MONTHLY PAYMENT
- 3. TERM OF LOAN
- 4. INTEREST (APR)

ARE THESE LOAN FIGURES OK?

(0=YES, 1=CHANGE, 2=EXIT TO MENU)

If you've previously used option 1 to calculate the loan figures, the above four fields will already contain some numbers. However, if you choose this option when the program first starts, you'll have to enter some valid loan figures in order to proceed further.

CHANGING CURRENT LOAN FIGURES

You can change the displayed loan figures before getting an amortization table. (You'll have to do this first if you haven't previously entered any loan figures.) Since entering loan figures in this case is a little different from the way you previously did it, we'll go through an example step-by-step. Start by typing l and pressing RETURN, and then follow these steps:

YOU TYPE IN:	THE PROGRAM RESPONDS BY:
l and press RETURN	moving the cursor to the PRINCIPAL field
38400 and press RETURN	placing the number 38400.00 in the PRINCIPAL field
2 and press RETURN	moving the cursor to the MONTHLY PMT field
316 and press RETURN	placing the number 316.00 in the MONTHLY PMT field
3 and press RETURN	moving the cursor to the TERM field
360 and press RETURN	placing 360 in the TERM field
4 and press RETURN	moving the cursor to the APR field
9.25 and press RETURN	placing 9.25 in the APR field

Finally, type 0 and press RETURN. The program will now redisplay the entire screen and again prompt you with:

ARE THESE LOAN FIGURES OK?

(0=YES, 1=CHANGE, 2=EXIT TO MENU)

Since you've just finished entering all the fields you need, type 0 and press RETURN. Note that if you ever need to change the loan figures, you can change only the ones you wish; you don't have to reenter all four fields every time.

3.4 DISPLAYING AN AMORTIZATION TABLE

Using the sample amounts we've just entered, let's try displaying an amortization table for payment numbers 1 through 12. If you've followed the instructions correctly, the screen should look like:

DISPLAY/PRINT AMORTIZATION TABLE

- 1. PRINCIPAL AMOUNT 38400.00
- 2. MONTHLY PAYMENT 316.00
- 3. TERM OF LOAN

360

4. INTEREST (APR)

9.25

START:

END:

and the cursor will be waiting after the word START. These are the starting and ending payment numbers for which we want the table listed. Type a l and press RETURN. The cursor now follows the word END. Type 12 and press RETURN.

At the bottom of the screen, the program asks: SCREEN (0) OR PRINTER (1) (2=EXIT). If you want the amortization table listed to the screen, type 0 and press RETURN. To have it listed to the printer, type 1 and press RETURN. If you've changed your mind and don't want to see an amortization table at all, type 2 and press RETURN.

In our example, we'll list the amortization table to the screen. Type 0 and press RETURN; immediately below the START and END payment numbers the program displays:

FOR PAYMENT NUMBERS 1 THROUGH 6

CURRENT	TOTAL	PMT TO	LOAN
INTEREST	INTEREST	PRINC.	BALANCE
296.00	296.00	20.00	38380.00
295.85	591.85	20.15	38359.85
295.69	887.54	20.31	38339.54
295.53	1183.07	20.47	38319.07
295.38	1478.45	20.62	38298.45
295.22	1773.67	20.78	38277.67

PRESS 'e' TO END

The four numbers being displayed on each line are, from left to right:

- 1. The current interest due with this payment
- 2. The total interest paid through and including this payment
- 3. The amount of the payment which goes to reducing the principal
- 4. The balance of the loan still due after this payment

To continue with the table press RETURN; pressing "e" ends

the table immediately. When the table is complete, the prompt:

TABLE COMPLETE PRESS RETURN TO CONTINUE

appears at the bottom of the screen. By pressing RETURN, you'll be able to enter new starting and ending payment numbers for the amortization table.

When you're all done listing this loan's amortization table, just press RETURN when the cursor is at the START field, you'll be able to enter new loan figures and start the procedure all over again. If you want to exit this option and return to the main menu, type a 2 and press RETURN when the program asks you: ARE THESE LOAN FIGURES OK?

OTHER FEATURES OF OPTION 2

Option 2 always lets you start and end at any payment (unless the end payment is less than the start payment). However, if you are starting at a very large number, (for example try starting the table at payment 350 and ending at 350), the the program will take a long time to calculate the necessary number (about 45 seconds in this case). The numbers will flip by on the screen until they reach the beginning payment you want.

Also, if you enter a START number larger than the number of payments necessary to pay off the loan, the program won't display anything in the table.

Finally, the program will check for improper loan figures, such as those mentioned on page 6 of this manual. Although you'll be able to enter incorrect figures, if you try to run option 2, you'll get an INVALID LOAN FIGURES message at the bottom of the screen and you won't be able to go any further until you correct the loan figures.

3.5 Printing an Amortization Table

If you have an 80-column printer, properly interfaced to your computer, you can get a printout of the amortization table. You make this choice after you've entered the starting and ending payment numbers for the table (see section 3.4). Simply type 1 (instead of 0) when asked: SCREEN (0) OR PRINTER (1) (2=EXIT). The program will automatically list the amortization table to the printer.

If your printer isn't hooked up or initialized properly, you'll get a PRINTER NOT HOOKED UP error message. You may have to turn your printer off and on again, or you may even have to exit the Loan Analyzer program completely and run it again from scratch in order to have the printer re-initialized correctly.

PRINCIPAL: 38400.00 MONTHLY PAYMENT: 316.00 TERM: 360 MONTHS APR: 9.25%

1 296.00 296.00 316.00 38380.00 2 295.85 591.85 20.15 632.00 38359.85 3 295.69 887.54 20.31 948.00 38339.54 4 295.53 1183.07 20.47 1264.00 38319.07 5 295.38 1478.45 20.62 1580.00 38277.67 7 295.16 2068.73 20.78 1894.00 38277.67 7 295.16 2068.73 20.94 2212.00 38256.73 8 294.73 2565.34 21.10 2528.00 38235.63 10 294.57 2952.93 21.43 3160.00 38127.33 11 294.40 3247.33 21.60 3476.00 38171.33 12 294.24 3541.57 21.76 3792.00 38127.64 14 293.90 4129.54 22.10 424.00 38105.54 14 293.93 4129.54 22.10 427.40.00 <t< th=""><th>FMT#</th><th>CURRENT INTEREST</th><th>TOTAL INTEREST</th><th>PMT TO PRINCIPAL</th><th>TOTAL PAYMENTS</th><th>LOAN BALANCE</th></t<>	FMT#	CURRENT INTEREST	TOTAL INTEREST	PMT TO PRINCIPAL	TOTAL PAYMENTS	LOAN BALANCE
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LOAN ANALYZER

ATARI 400/800

LOAN ANALYZER is one of many Creative Software home-utility programs designed to turn your computer into a truly useful household tool.

What the Program Does

Comparing and contrasting the complicated terms of a loan is the sort of job for which your computer is perfectly suited. Using the Creative Software LOAN ANALYZER programs, you can enter and manipulate four loan parameters to see what terms best suit your needs and budget. The programs will also calculate and produce an amortization table, enabling you to see at a glance how much your loan is costing per month, how much of your payment is going toward repayment of principal, and how much is going to interest.

What You Do

Inform the computer of the terms of your loan:

- Monthly payments
- · Length of the loan
- Amount of the loan
- Annual percentage rate

The Results

Amortization table showing:

- Payment number
- Interest being paid, this payment
- Lotal interest paid to date
- Payment to principle, this payment
- Balance still due

Programs from Creative Software: Easy, Efficient, Informative.

