

Mastering Time Value of Money Calculations with TValue 6 Software

IMPORTANT WEBINAR DETAILS

- This webinar is an intermediate course certified by NASBA for one CPE credit. In order to receive CPE credit, you must stay for the entire program and participate by responding in real time to ALL polling questions. Certificates will be emailed approximately 2 to 3 business days after webinar.
- **Questions are encouraged**. Use the GoToWebinar console to submit your questions during the webinar. We will answer as many questions live as time allows near the end of the presentation or by email if we don't have time.
- To ensure the best experience, view presentation in full-screen mode

PRESENTATION TEAM

Marty Pellerin

- 20+ Years with TimeValue Software
- Industry Speaker/Presenter
- CFO/Senior VP/VP Finance

Zack Kissee

- 5 Years with TimeValue Software
- Senior Support Manager

ABOUT TIMEVALUE SOFTWARE

- Founded by a CPA from Price Waterhouse in 1984
- Located in Irvine, California
- Experts in time value of money calculations
- Over 500,000 users for all product lines in over 100 countries
- Our flagship product, TValue amortization software, is used by all top 100 accounting firms

AGENDA

TValue 6 Software Tour

Features & Capabilities

TValue Software Sample Calculations

- Modifications/Restructuring
- Adjustable Rate Loan
- Present & Future Value Calculations
- Financial Planning

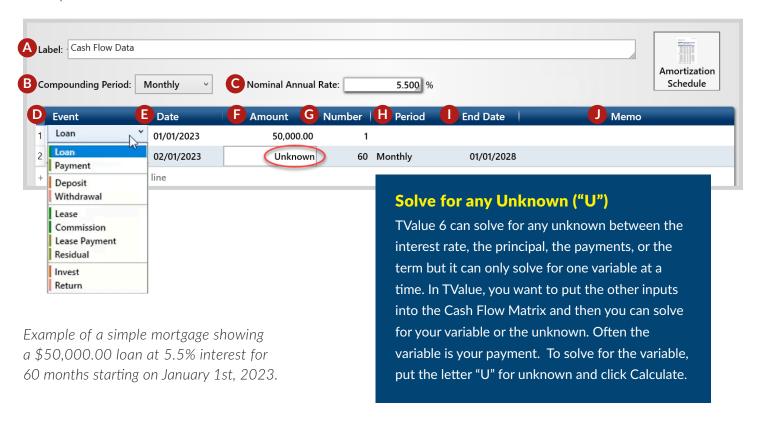
- Lease Calculations
- Internal Rate of Return
- Audit of Excel

Questions

TVALUE 6 SOFTWARE TOUR

CASH FLOW MATRIX INPUTS & SHORTCUTS

All input is done in the cash flow matrix.

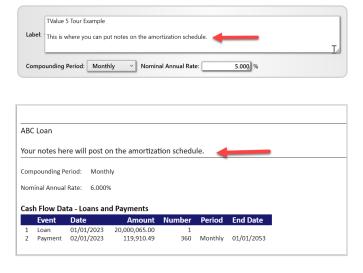


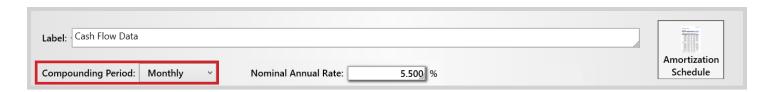
- A. Label Your file description. Can be displayed at the top of the amortization schedule.
- B. Compounding Period/Computation Interval Select period from the drop down menu
- C. Nominal Annual Rate Input your interest rate
- D. **Event** Choose from the drop-down list or create a custom event names
- E. Date Input 6 characters. Use shortcuts to advance date including D, M, Y, C
- F. Amount Shortcuts include K, H, M, B
- G. **Number** The number of times event occurs. Can use + to adjust or X year for months.
- H. **Period** Time between events on a given cash flow line
- I. **End Date** Indicates the day of the last event in the series
- J. **Memo** Enter a description of the line item



LABEL

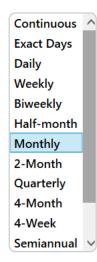
Enter a description of the schedule that you are working on. Click on the lower right corner to expand label field to add notes to the file as needed.

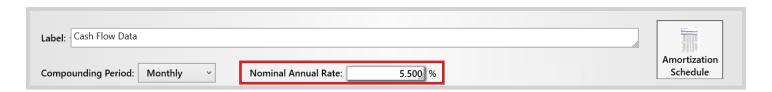




COMPOUNDING PERIOD

Click for drop down menu to select from 13 different Compound or Computation Interval periods.





INTEREST RATE OPTIONS

Click on the lower right corner to view inter-related rates.

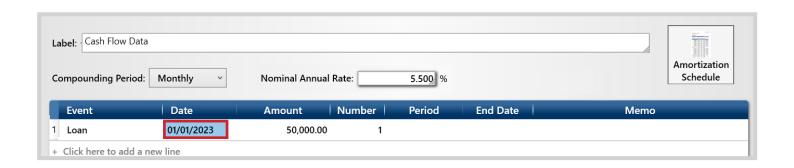
Nominal Annual Rate: Typically the quoted rate

Effective Annual Rate: The effect of compounding

Periodic Rate: Rate per period

Daily Rate: Rate per year length

Nominal Annual Rate:	5.500000000	%
Effective Annual Rate:	5.641	%
Periodic Rate:	0.45833	%
Daily Rate:	0.01507	%



DATE LOCKING

Affects how subsequent dates in a series are determined for the last day of the month.



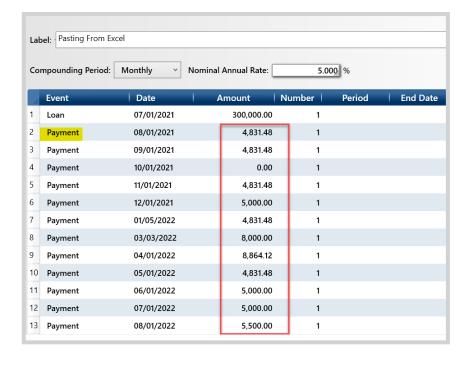
GUIDES

Simple way to start many common problems.



EXCEL PASTING

Pasting lines from Excel will make easy work of populating your cash flows.



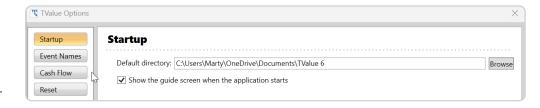
1	Α	В	C
1	Payment	8/1/2021	4,831.48
2	Payment	9/1/2021	4,831.48
3	Payment	10/1/2021	0.00
4	Payment	11/1/2021	4,831.48
5	Payment	12/1/2021	5,000.00
6	Payment	1/5/2022	4,831.48
7	Payment	3/3/2022	8,000.00
8	Payment	4/1/2022	8,864.12
9	Payment	5/1/2022	4,831.48
10	Payment	6/1/2022	5,000.00
11	Payment	7/1/2022	5,000.00
12	Payment	8/1/2022	5,500.00

TVALUE OPTIONS



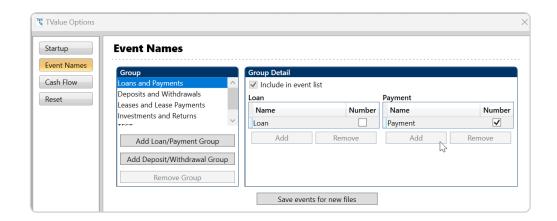
STARTUP

The directory displayed when you save or open a file. May change as needed. Guide screen, if checked, will display when the application starts.



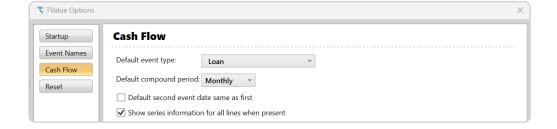
EVENT NAMES

Customize Groups and/ or Events. Add, edit, or remove from groups other than Loans or Deposits.



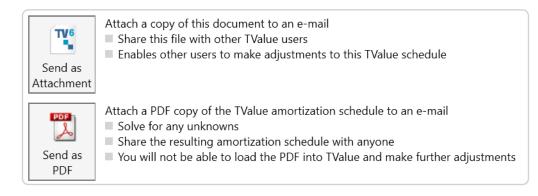
CASH FLOW

Setting will determine the Event that will appear on new schedule and the related compound period.



SEND TO

Attaches your amortization schedule or document to an email. Recipient of TValue 6 file must have TValue 6 or TValue Online to open.





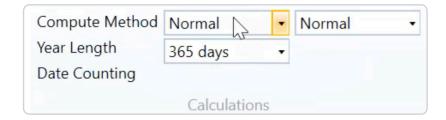
COMPUTE OPTIONS

Compute Method: Normal, U.S. Rule,

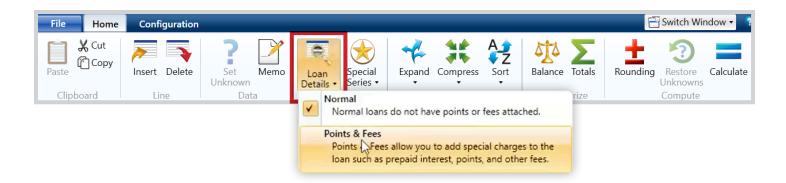
Canadian. Rule of 78

Year Length: 365, 364, 360

Date Counting: Normal, 30E3/360

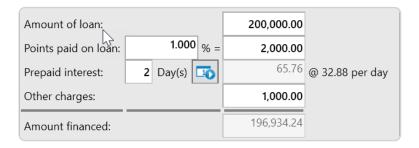


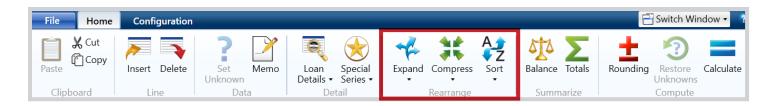
THE RIBBON - EASY ACCESS TO MANY COMMON TVALUE 6 FEATURES



LOAN DETAILS/POINTS AND FEES

Points, Prepaid Interest, and Fees to do APR Calculations.





EXPAND, COMPRESS, AND SORT

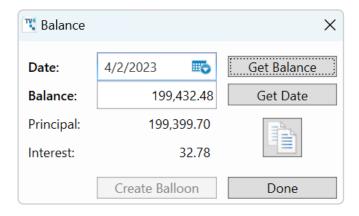
Great tools for editing payments and irregular cash flows.

	Event	Date	Amount	Number
7	Payment	10/01/2023	1,199.10	
8	Payment	11/01/2023	1,199.10	
9	Payment	12/01/2023	1,199.10	
10	Payment	01/01/2024	1,199.10	
11	Payment	02/01/2024	1,199.10	
12	Payment	03/01/2024	0.00	
13	Payment	04/01/2024	1,199.10	
14	Payment	05/01/2024	1,199.10	
15	Payment	06/01/2024	1,199.10	



BALANCE

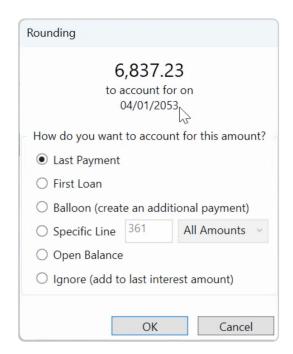
Reconcile the date corresponding to a cash flow balance or a balance at a specific date.

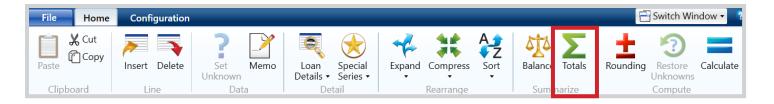




ROUNDING

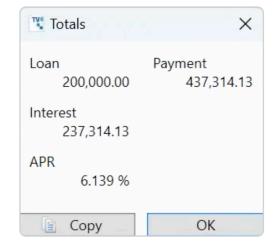
Select from six different options. For loans that you don't want to reconcile, click on Open Balance.





TOTALS

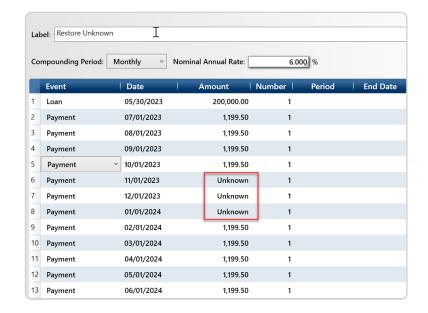
Provides a summary of totals for the current cash flows.

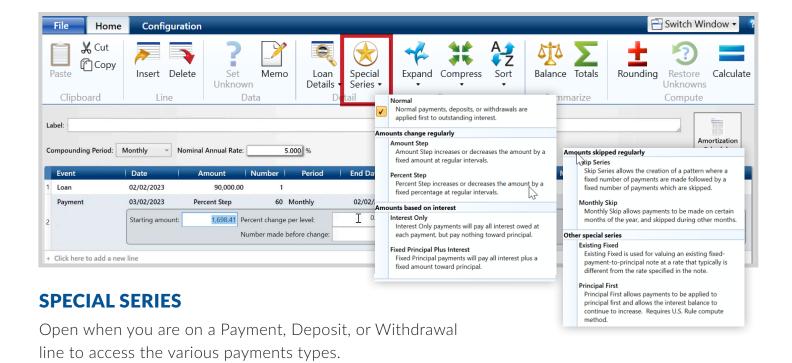




RESTORE UNKNOWNS

To restore an unknown value(s) after calculating.





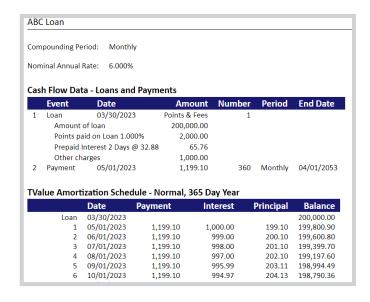
Special Series - TValue's creative financing tool!

- Normal Normal payments, deposits, or withdrawals are applied first to outstanding interest
- Amount Step Increases or decreases the amount by a fixed amount at regular intervals
- Percent Step Increases or decreases the amount by a fixed percentage at regular intervals
- Interest Only Payments will pay all interest owed at each payment, but pay nothing towards principal
- Fixed Principal Plus Interest Payments will pay all interest plus a fixed amount towards principal
- **Skip Series** Create a pattern with fixed number of payments made followed by fixed number of skip payments
- Monthly Skip Payments can be made on certain months of the year, and skipped or modified during other months
- Existing Fixed Used for valuing an existing fixed-payment-to-principal note at a rate that typically is different from the rate specified in the note
- **Principal First** Allows payments to be applied to principal first and allows the interest balance to continue to increase. Requires U.S. Rule compute method



AMORTIZATION SCHEDULE

Schedule showing payments and principal and interest allocation.



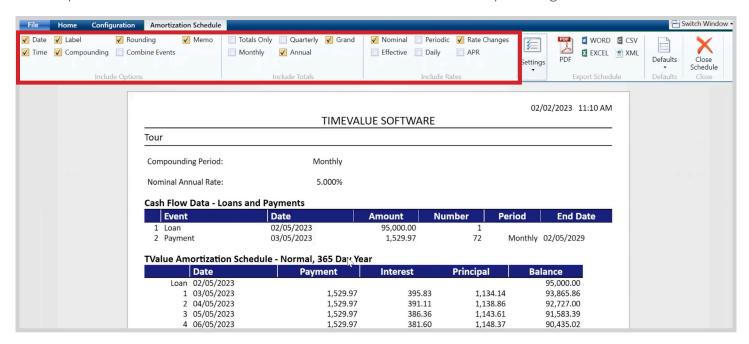
TRUTH IN LENDING DISCLOSURE

APR - Annual Percentage Rate can appear at bottom of amortization schedule.

ANNUAL PERCENTAGE RATE The cost of your of	E CHA	NCE RGE ollar amount the will cost you.	Amount Finance The amount of credit provided to you or of your behalf.	t The amoun	after you all
Grand Totals		431,676.00	231,676.00	200,000.00	
2053 Totals		4,796.40	58.34	4,738.06	
360	04/01/2053	1,199.10	4.93	1,194.17	0.00
359	03/01/2053			1,187.19	1,194.1
357 358	01/01/2053 02/01/2053			1,175.41 1,181.29	3,562.65 2,381.36
2052 Totals		14,389.20		13,656.98	
356	12/01/2052	1,199.10	29.54	1,169.56	4,738.0

AMORTIZATION RIBBON

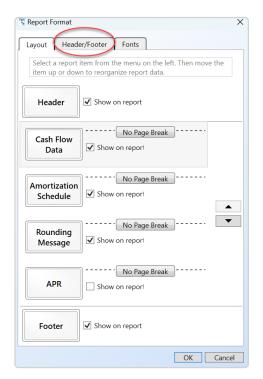
Create professional amortization schedules that are customizable by clicking on items to be included.





FORMAT OPTIONS

Add information that is relevant to your presentation including putting a header and footer on your amortization schedule.



MODIFICATIONS/ RESTRUCTURING EXAMPLE

Modification Options

Original Loan Amount: \$200,000

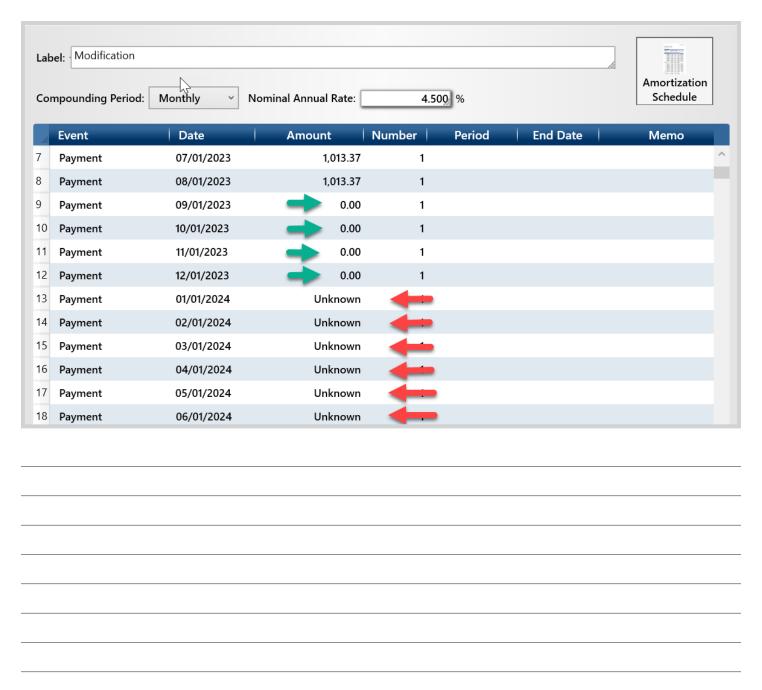
Amortize Over: 360 Months

Interest Rate: 4.5%

Missed Payments: 4

Option 1: What is the 12-month Catch-up Payment?

Option 2: What is the Extended Term?



ADJUSTABLE RATE LOAN EXAMPLE

Variable Rate Mortgage

Loan Amount: \$200,000

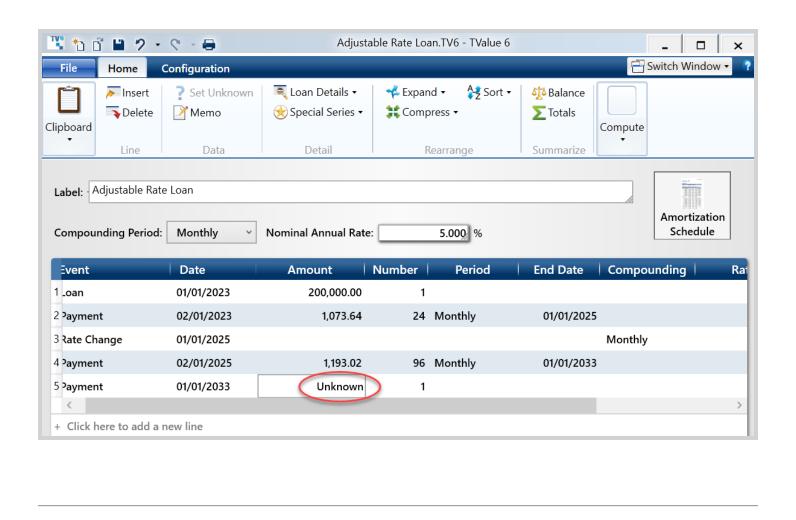
Amortize Over: 360 Months

Initial Interest Rate: 5%

Rate Change to 6%: 24 Months

Balloon: 10 Years

What is the Balloon?



PRESENT VALUE CALCULATION EXAMPLE

Capitalize
Operating
Lease

TValue

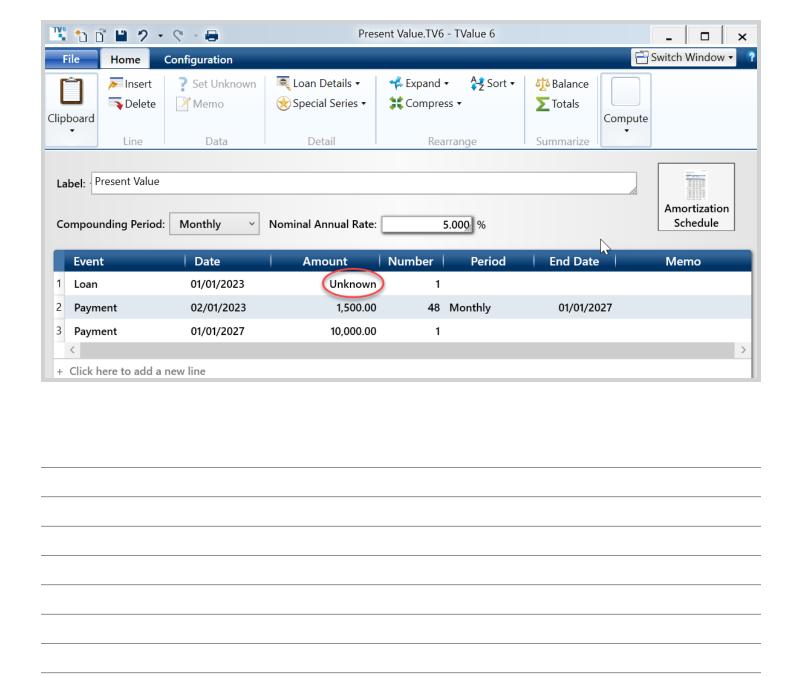
Interest/Borrowing Rate: 5%

Monthly Payment: \$1,500

Residual: \$10,000

Term: 4 Years

What is the Capitalized Value?



FUTURE VALUE CALCULATION EXAMPLE

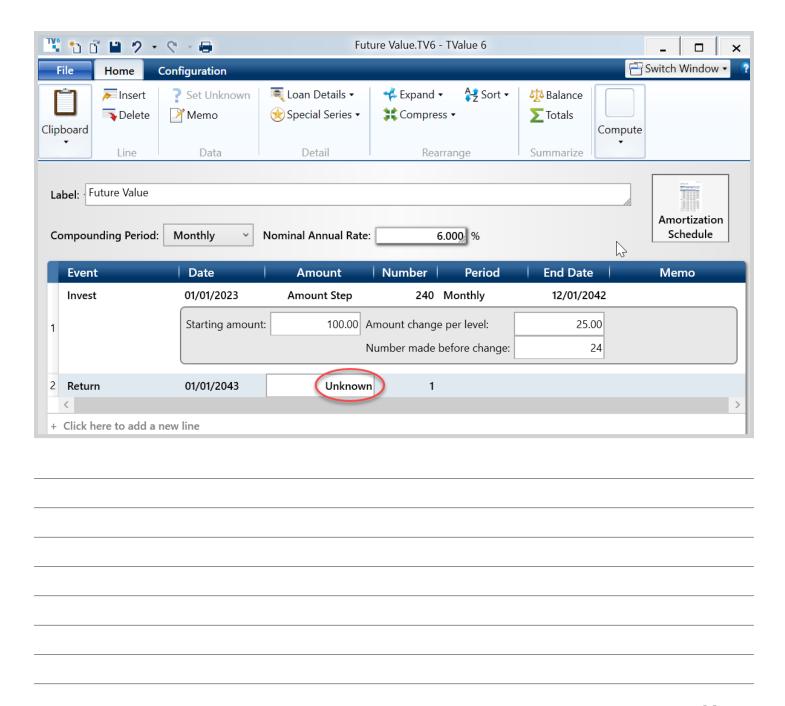
College Savings Plan Annual Investment 1st Year: \$100

Increase Amount Every 2 Years: \$25

Annual Rate of Return: 6%

Term: 20 Years

How Much Will I Have Saved for College?



FINANCIAL PLANNING EXAMPLE

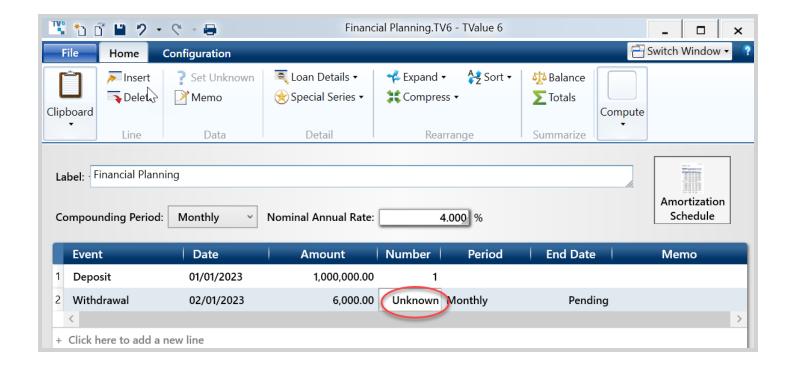
Retirement Savings

Retirement Goal: \$1 Million

\$6,000 **Monthly Withdrawals:**

Annual Rate of Return: 4%

How Long Will My Funds Last?



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LEASING CALCULATION EXAMPLE

Pricing a Lease

Lease Amount: \$50,000

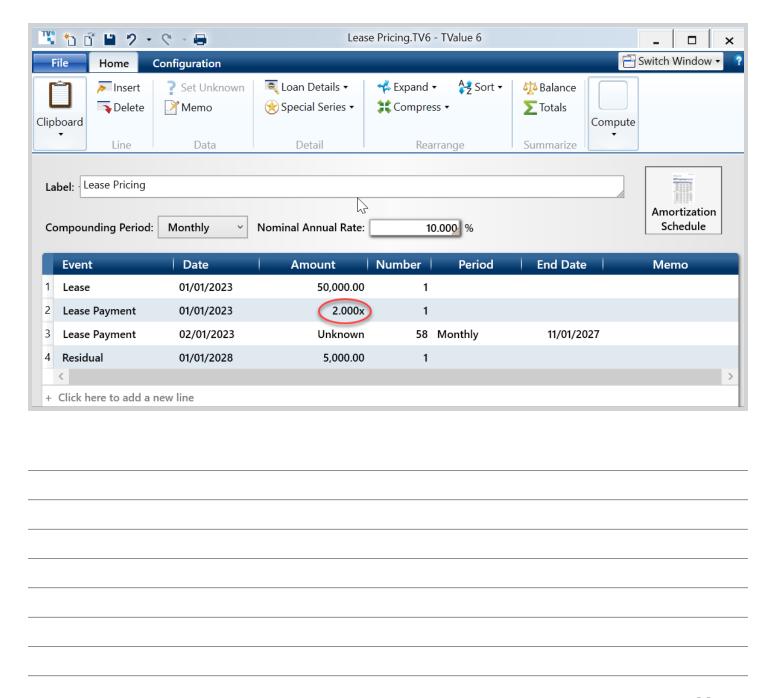
Interest Rate: 10%

Term: 60 Months

Advanced Payments: 2 Months

Residual: \$5,000

What is My Lease Payment?



INTERNAL RATE OF RETURN CALCULATION EXAMPLE

Internal Rate of Return (XIRR)

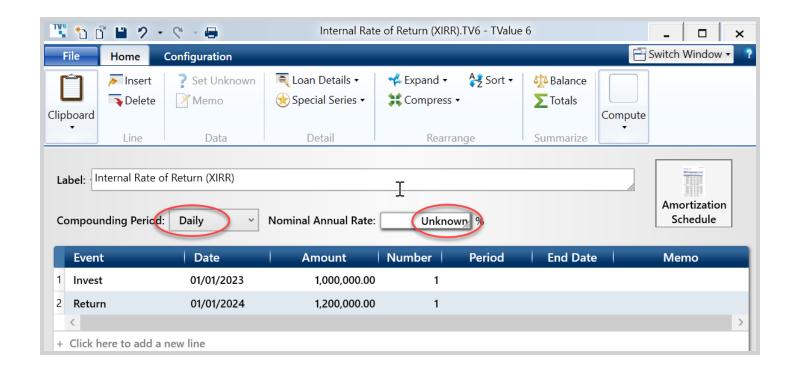
TValue

Compounding Period: Daily

Investment (1/1/2023): \$1 million

Return (1/1/2024): 1.2 million

What is My Return on Investment?



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AUDITING OF EXCEL

"Excel Does Not Guarantee Excellence"

Terms:	years	30	30 year Schedule		Balance due	15	years	
	Initial In	I Int Rate: 5.50% per annum int rate/day for 360 day yr:		0.01528%				
each month's Interest is calculated as (days in each month) x (interest rate/day rate):							0.01549%	
Year/	Payment				Interest for	Principal		
Mo#	<u>Due</u>	Day/Mo	Begin Princ	<u>Payment</u>	prior month	for Month	End Balance	
2016	1		Escrow Closed 2/19/2016 per Escrow Settlement Sheet attached					
1	2/19/16	29	2,350,000.00			-	2,350,000.00	
Feb	3/1/16	11	2,350,000.00	13,343.04	3,949.31	9,393.73	2,340,606.27	
Mar	4/1/16	31	2,340,606.27	13,343.04	11,239.33	2,103.71	2,338,502.56	
Apr	5/1/16	30	2,338,502.56	13,343.04	10,867.00	2,476.04	2,336,026.52	
May	6/1/16	31	2,336,026.52	13,343.04	11,217.34	2,125.70	2,333,900.82	

BENEFITS OF USING TVALUE VERSUS EXCEL

- Quick and easy
- Calculations are error free
- Handles irregular payments
- Quick "what if" calculations
- Simple to the complex
- Detailed amortization schedules
- Unlimited customer support

TIMEVALUE SOFTWARE PRODUCTS

AMORTIZATION SOFTWARE & FINANCIAL CALCULATORS

TValue 6

Desktop Edition for Windows

TValue Online

Cloud Based Edition

TValue Direct for Salesforce

Integrated App

TValue Engine

Windows Software Development Kit (SDK) & REST API Web Service

TCalc

Online Financial Calculators

WORKLOAD MANAGEMENT SOFTWARE

File In Time

Due Date Tracking & Task Management Software

TAX INTEREST & PENALTY SOLUTIONS

TaxInterest

IRS/State Interest & Penalty Software

TaxInterest FIN 48

Excel Add-in

TaxInterest Netting

IRS Global Interest Netting Software

TaxInterest Engine

Software Development Kit

Tax941

IRS Payroll Tax Interest, Penalty & Form Software

PayrollPenalty

IRS Failure to Deposit Penalty
Abatement Software

All TimeValue Software products come with a one-year, money-back guarantee.



TVALUE SOFTWARE PRICING

TValue Online User License — \$60/year, per user

- Future updates and upgrades
- Exclusive access to over 60 training videos
- Unlimited product and technical support

TValue 6 Initial User License — \$149

- TValue 6 Additional Licenses \$99
- TValue 6 Upgrade \$119

TValue 6 Annual Maintenance Service — \$35/year, per user

- Future updates and upgrades
- Exclusive access to over 60 training videos
- Unlimited product and technical support

TValue Direct for Salesforce — \$15/month, per user

- Future updates and upgrades
- Unlimited product and technical support

TValue Engine Windows Software Development Kit (SDK) or REST API Web Service — Call for pricing specific to your needs

Order online at www.TimeValue.com or contact a TimeValue Software expert at 800-426-4741 Monday-Friday 7am to 5pm (Pacific Time) for pricing specific to your needs.

Contact our TValue Support Team at info@TimeValue.com or call 800-426-4741 for more information on how TValue can help you with your individual needs.

