

TIMEVALUETM
s o f t w a r e

Mastering
Time Value of Money
Calculations with
TValue Online
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 ONLINE SOFTWARE TOUR

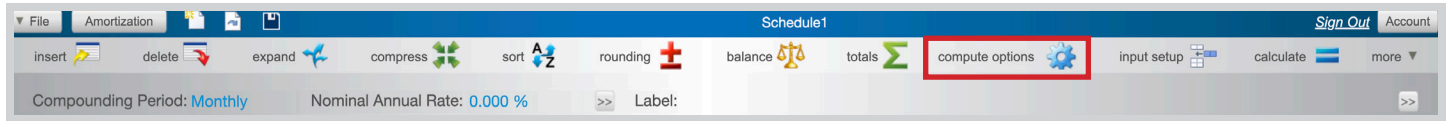
CASH FLOW MATRIX INPUTS & SHORTCUTS

All input is done in the cash flow matrix.

Example of a simple mortgage showing a \$200,000.00 loan at 6% interest for 360 months starting on January 1st, 2023.

- A. **Compounding Period/Computation Interval** - Select period from the drop down menu
- B. **Nominal Annual Rate** - Input your interest rate
- C. **Label** - Your file description. Can be displayed at the top of the amortization schedule.
- D. **Event** - Choose from the drop-down list or create a custom event
- 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. **Special Series** - Payments that vary in amount when made or how they are applied to interest and principal
- K. **Memo** - Enter a description of the line item

MAIN RIBBON - EASY ACCESS TO MANY COMMON TVALUE ONLINE FEATURES

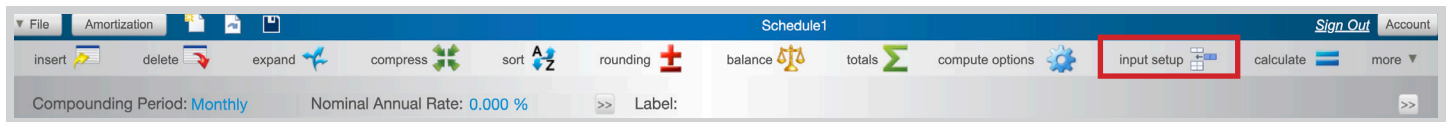
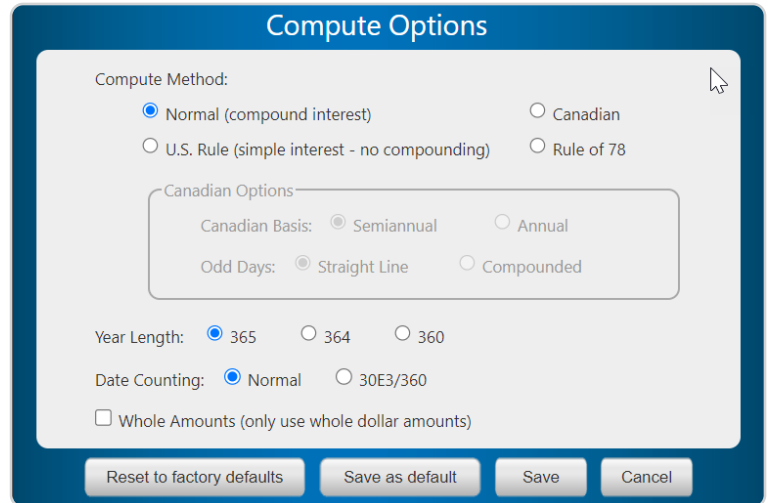


COMPUTE OPTIONS

Compute Method: Normal, U.S. Rule, Canadian, Rule of 78

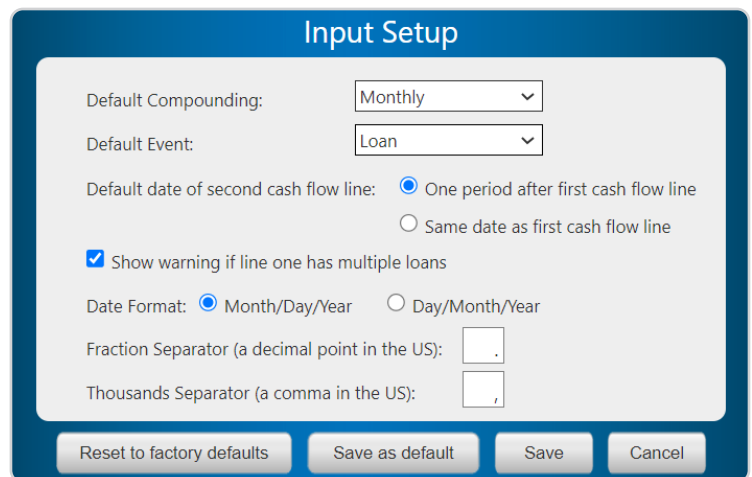
Year Length: 365, 364, 360

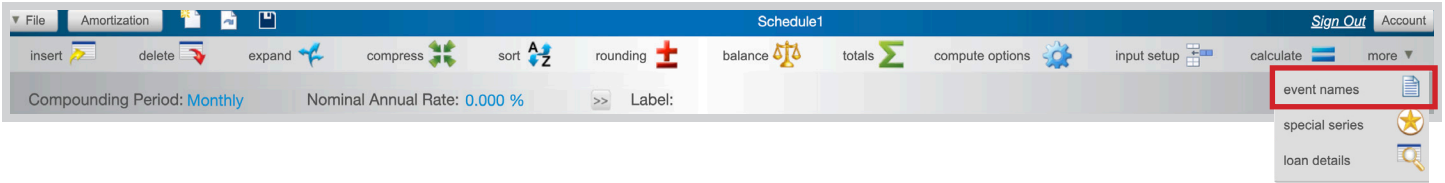
Date Counting: Normal, 30E3/360



INPUT SETUP

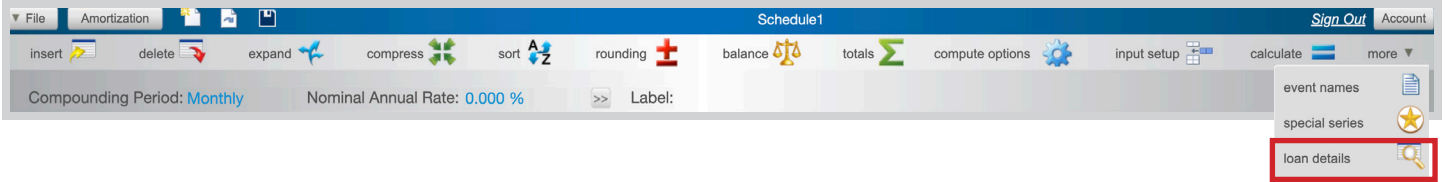
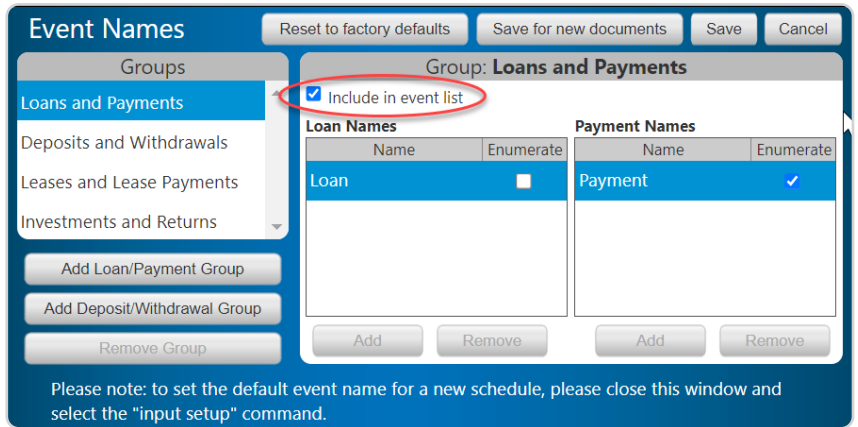
Setup your Default Compounding and Default Event.





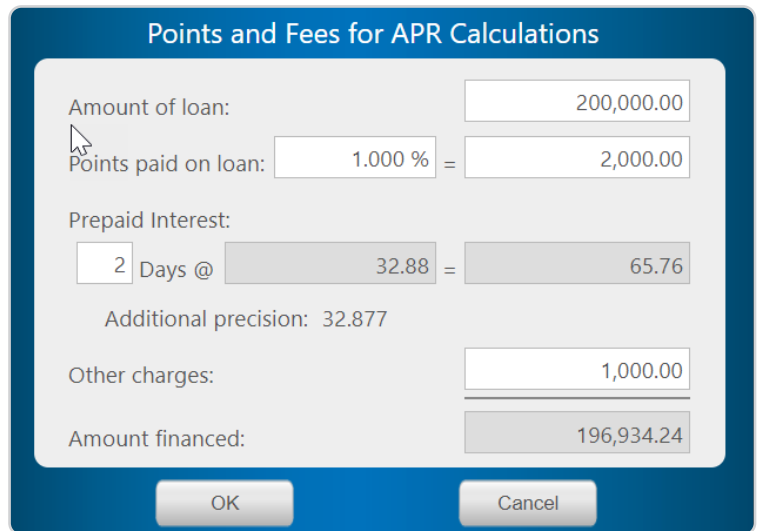
EVENT NAMES

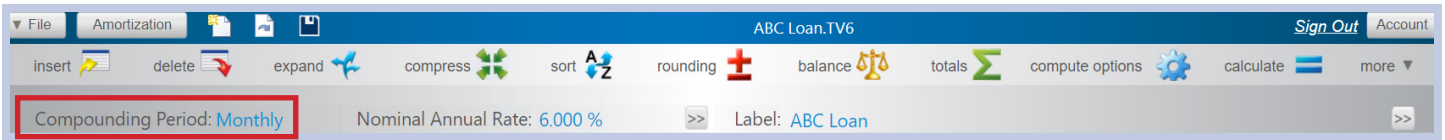
Customize Groups and/or Events.



LOAN DETAILS/POINTS AND FEES

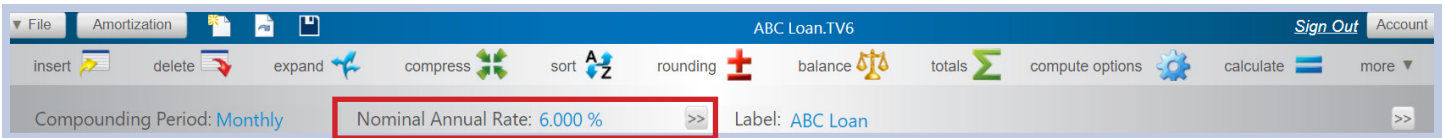
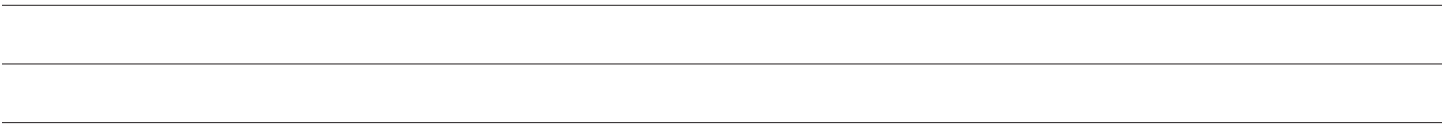
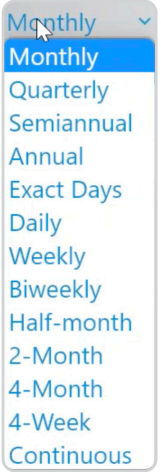
Points, Prepaid Interest, and Fees to do APR Calculations.





COMPOUNDING PERIOD

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



INTEREST RATE OPTIONS

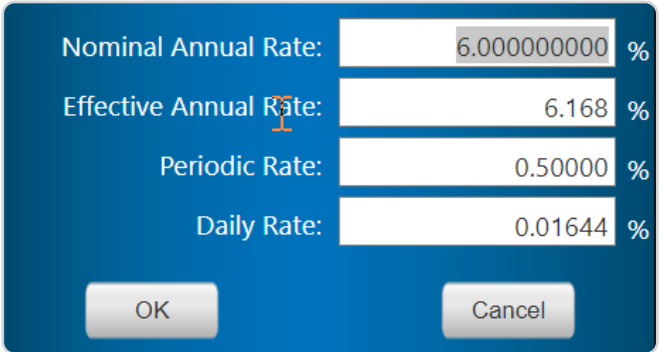
Click on arrow button to view inter-related rates.

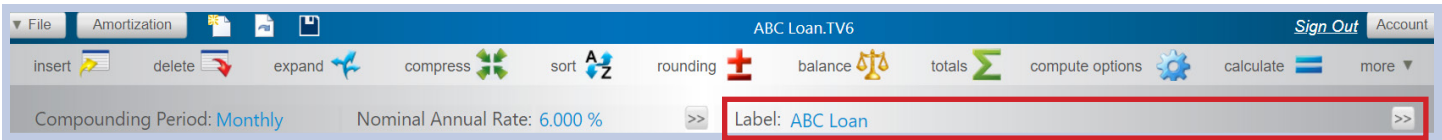
Nominal Annual Rate: Typically the quoted rate

Effective Annual Rate: The effect of compounding

Periodic Rate: Rate per period

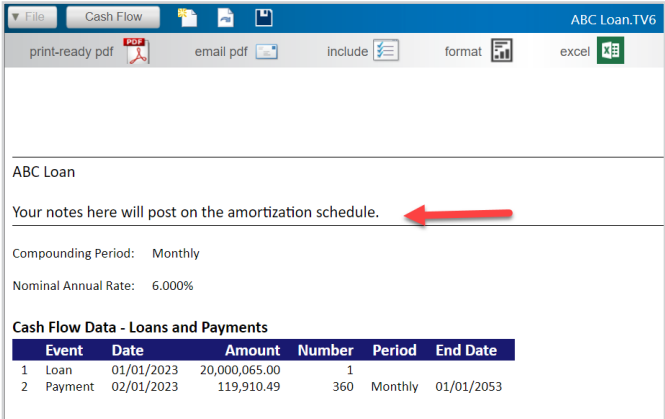
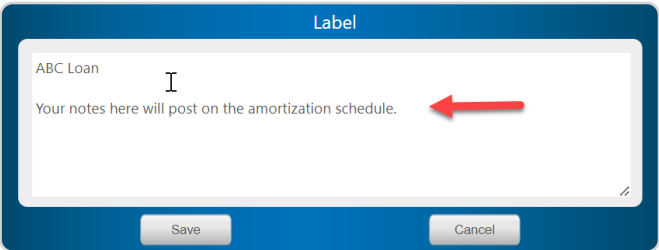
Daily Rate: Rate per year length





LABEL

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



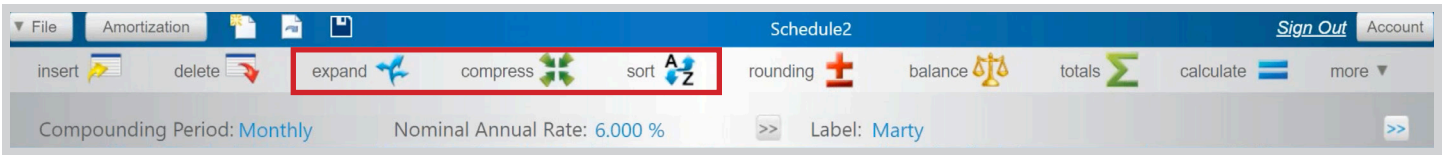
EVENT	DATE	AMOUNT	NUMBER	PERIOD	END DATE	SPECIAL SERIES	MEMO
1	Loan	03/30/2023	200,000.00	1		Points & Fees	
2	Payment	05/01/2023	1,199.10	360	Monthly	04/01/2053	

+ Click here to add a new line

DATE LOCKING

Right click to edit lock dates for in a series at a specific date that may not be end of month.

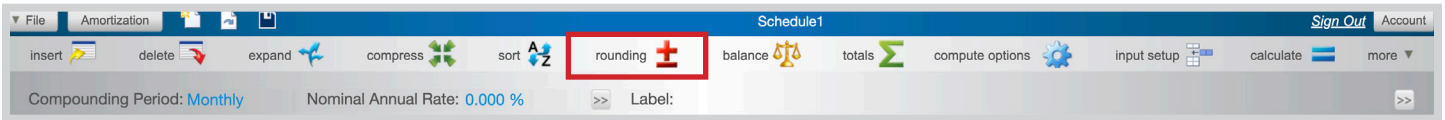




EXPAND, COMPRESS, AND SORT

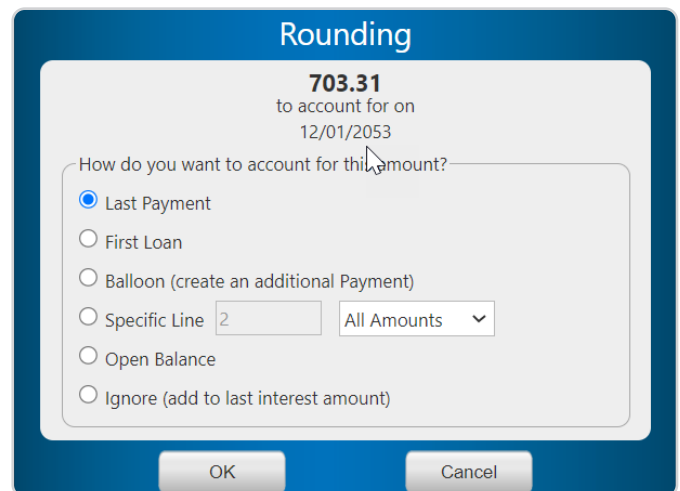
Great tools for editing payments and irregular cash flows.

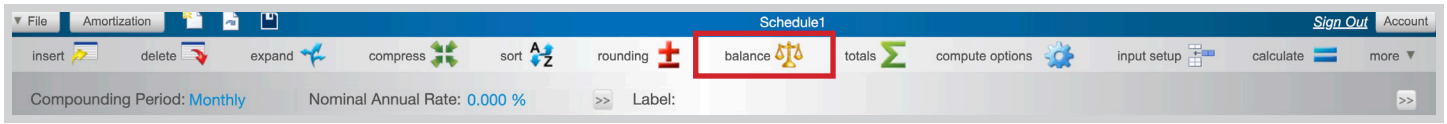
	EVENT	DATE	AMOUNT	NUMBER
1	Loan	03/30/2023	200,000.00	1
2	Payment	05/01/2023	1,199.10	1
3	Payment	06/01/2023	1,199.10	1
4	Payment	07/01/2023	1,199.10	1
5	Payment	08/01/2023	1,199.10	1
6	Payment	09/01/2023	1,199.10	1
7	Payment	10/01/2023	1,199.10	1
8	Payment	11/01/2023	1,199.10	1



ROUNDING

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



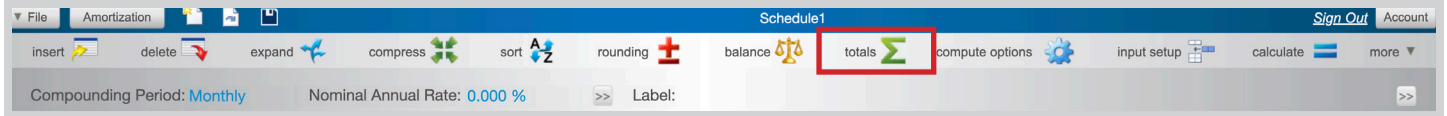


BALANCE

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

Balance

Date:	<input type="text" value="04/02/2023"/>	<input type="button" value="Get Balance"/>
Balance:	<input type="text" value="199,432.48"/>	<input type="button" value="Get Date"/>
Principal:	199,399.70	
Interest:	32.78	

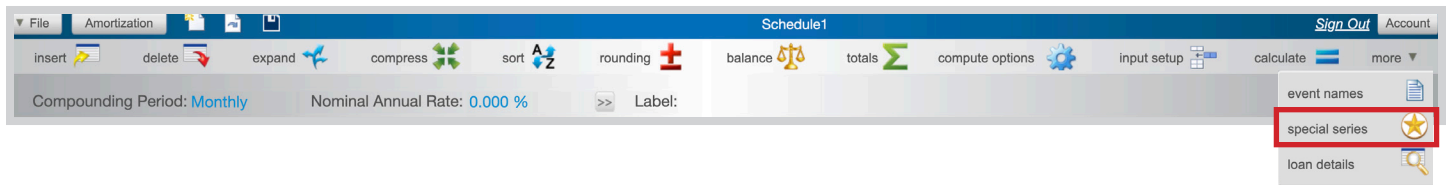


TOTALS

Provides a summary of totals for the current cash flows.

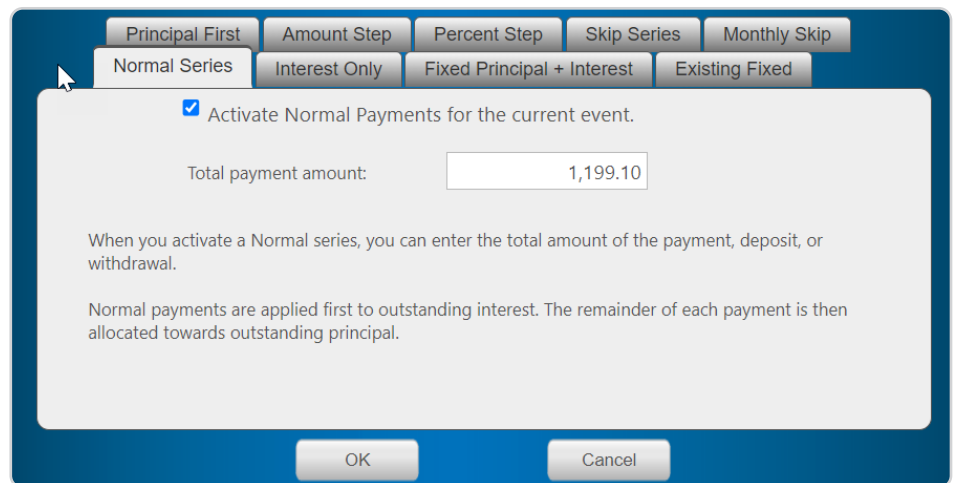
Totals

Loan	Payment
200,000.00	431,676.00
Interest	
231,676.00	
APR	
6.000 %	



SPECIAL SERIES

Open when you are on a Payment, Deposit, or Withdrawal line to access the various payments types.



Special Series - T-Value'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

File Amortization ABC Loan.TV6 Sign Out Account

insert delete expand compress sort rounding balance totals compute options calculate more

Compounding Period: Monthly Nominal Annual Rate: 6.000 % Label: ABC Loan

AMORTIZATION SCHEDULE

Schedule showing payments and principal and interest allocation.

ABC Loan

Compounding Period: Monthly
Nominal Annual Rate: 6.000%

Cash Flow Data - Loans and Payments

Event	Date	Amount	Number	Period	End Date
1 Loan	03/30/2023	Points & Fees	1		
		Amount of loan			
		Points paid on Loan 1.000%			
		Prepaid Interest 2 Days @ 32.88			
		Other charges			
2 Payment	05/01/2023	1,199.10	360	Monthly	04/01/2053

TValue Amortization Schedule - Normal, 365 Day Year

	Date	Payment	Interest	Principal	Balance
Loan	03/30/2023				200,000.00
1	05/01/2023	1,199.10	1,000.00	199.10	199,800.90
2	06/01/2023	1,199.10	999.00	200.10	199,600.80
3	07/01/2023	1,199.10	998.00	201.10	199,399.70
4	08/01/2023	1,199.10	997.00	202.10	199,197.60
5	09/01/2023	1,199.10	995.99	203.11	198,994.49
6	10/01/2023	1,199.10	994.97	204.13	198,790.36

TRUTH AND LENDING DISCLOSURE

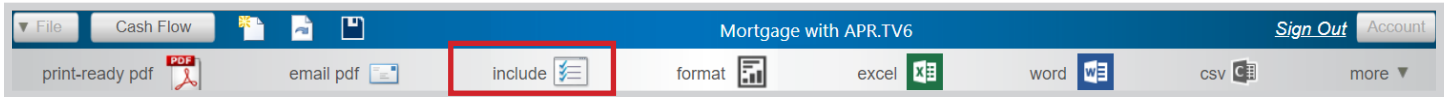
APR - Annual Percentage Rate can appear at bottom of amortization schedule.

355	11/01/2052	1,199.10	35.36	1,163.74	5,907.62
356	12/01/2052	1,199.10	29.54	1,169.56	4,738.06
2052 Totals		14,389.20	732.22	13,656.98	
357	01/01/2053	1,199.10	23.69	1,175.41	3,562.65
358	02/01/2053	1,199.10	17.81	1,181.29	2,381.36
359	03/01/2053	1,199.10	11.91	1,187.19	1,194.17
360	04/01/2053	1,199.10	4.93	1,194.17	0.00
2053 Totals		4,796.40	58.34	4,738.06	
Grand Totals		431,676.00	231,676.00	200,000.00	

ANNUAL PERCENTAGE RATE	FINANCE CHARGE	Amount Financed	Total of Payments
The cost of your credit as a yearly rate.	The dollar amount the credit will cost you.	The amount of credit provided to you or on your behalf.	The amount you will have paid after you have made all payments as scheduled.
6.141%	\$ 234,741.76	\$ 196,934.24	\$ 431,676.00

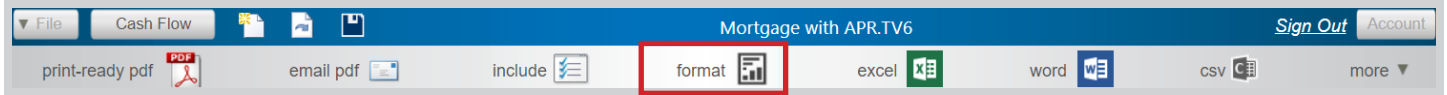
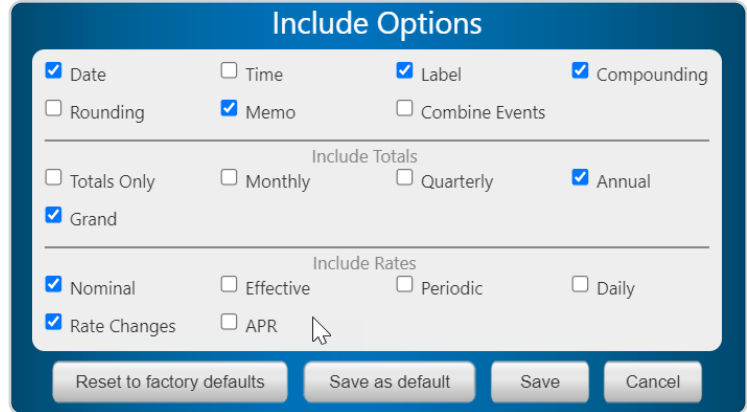
AMORTIZATION RIBBON

Create professional amortization schedules that are customizable.



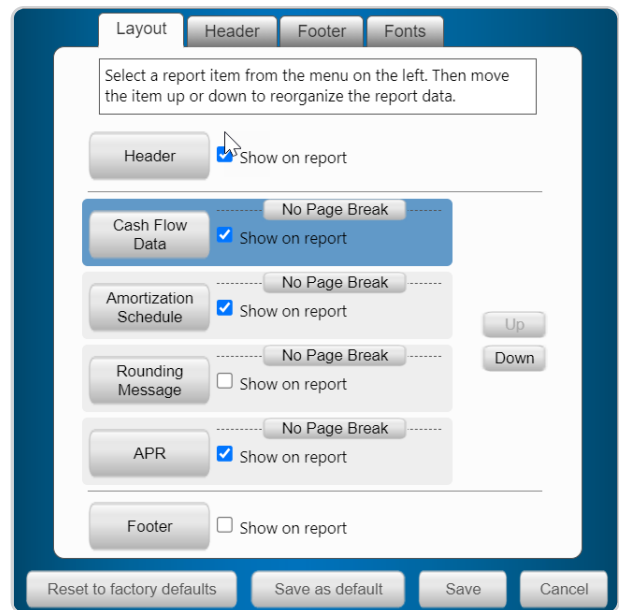
SCHEDULE OPTIONS

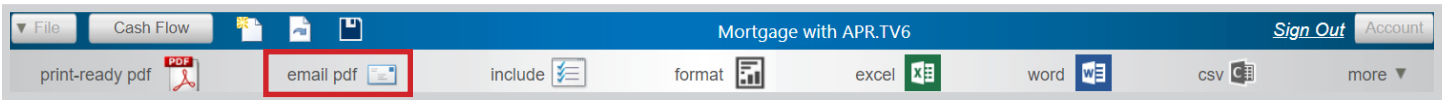
Customize information. Click on items to be included on amortization schedule.



FORMAT OPTIONS

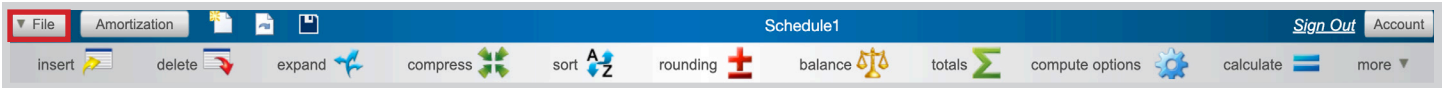
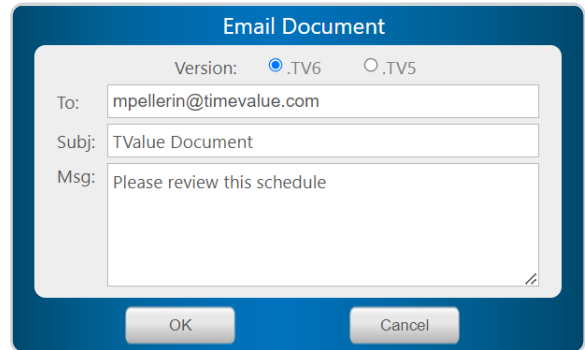
Add information that is relevant to your presentation including putting a header and footer on your amortization schedule.





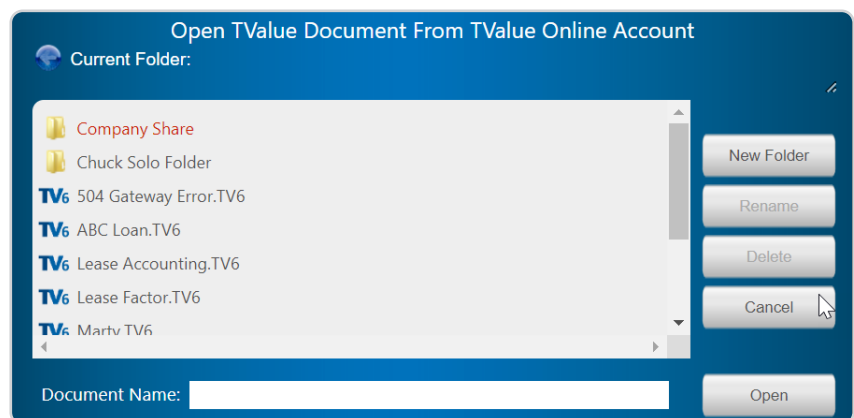
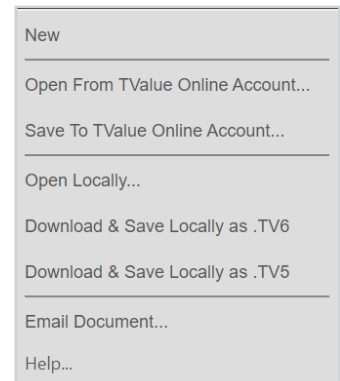
EMAIL TVALUE SCHEDULES

Easily email TValue schedule to someone and it will CC yourself.



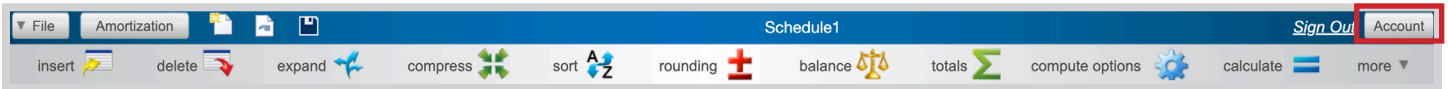
OPENING & SAVING FILES

You can either Open and Save your files to your TValue Online account (cloud) or save locally.



ACCOUNT

Administrative options including training videos and overview video.



ADMINISTRATIVE RIBBON & SETUP SCREEN

Manage users, defaults, various setups, and track usage.

TValue™ Online by TimeValue Software™ www.TimeValue.com 800-426-4741 support@TimeValue.com cmiller@timevalue.com

Main TValue Cash Flow Screen Change Password Change Email Sign In Sign Out **Manage Company Users**

Training Videos TValue Online Overview Video License Agreement

Manage Company Users - TimeValue Software

Total number of Licenses: 1 Number of Unused Licenses: 0 Number of Company Files: 4

- Only allow company administrators to set Defaults within TValue. There will only be one set of defaults for all users.
- Allow each user to set Defaults within TValue. Each user will have their own defaults.
- Disable cloud storage. Users will not be allowed to save TValue files into their TValue Online account.
- When emailing a TValue Schedule or PDF, don't list the user's email address in the 'from' section of the email.

Create New User Add an Existing User to this Company Reset User Password

Create New Users from a CSV File Download Usage Report (CSV File)

List of Current Users:

			Email	Displayed Name	User Phone Number	Is Company Administrator	'Company Share' Folder Access Type*		
Edit	Delete	1	cmiller@timevalue.com	Chuck Miller	9497271800	<input checked="" type="checkbox"/>	FullAccess	Last Login Date	Number of Personal Files

*'Company Share' Folder Access Types:

- Full Access: User can Add, Delete, Modify, and Re-name all folders and documents.
- SubFolders Only: User can not change any folders at the top level (folders directly under 'Company Share'). Full Access for all subfolders and their documents.
- Documents Only: User can not change or add any folders. Full Access to all documents.
- View Only: User can not change any folders or documents (read only).
- No Access: User will not see the 'Company Share' folder.

MODIFICATIONS/
RESTRUCTURING
EXAMPLE

Modification Options

Original Loan Amount: \$300,000
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?

EVENT	DATE	AMOUNT	NUMBER	PERIOD	END DATE	SPECIAL SERIES	MEMO
1 Loan	01/01/2023	300,000.00	1				
2 Payment	02/01/2023	1,520.06	6	Monthly	07/01/2023		
3 Payment	08/01/2023	0.00	3	Monthly	10/01/2023		
4 Payment	11/01/2023	1,520.06	Unknown	Monthly	Pending		

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?

EVENT	DATE	AMOUNT	NUMBER	PERIOD	END DATE	SPECIAL SERIES	MEMO
1	Loan	01/01/2023	200,000.00	1			
2	Payment	02/01/2023	1,073.64	24	Monthly	01/01/2025	
3	Rate Change	01/01/2025		Monthly		6.000 % >>	
4	Payment	02/01/2025	1,193.02	96	Monthly	01/01/2033	
5	Payment	01/01/2033	Unknown	1			

+ Click here to add a new line

PRESENT VALUE
CALCULATION
EXAMPLE

Capitalize Operating Lease

Interest/Borrowing Rate: 6%
Monthly Payment: \$1,500
Residual: \$10,000
Term: 4 Years

What is the Capitalized Value?

The screenshot shows the Lease Accounting.TV6 software interface. At the top, there are menu options like 'File', 'Amortization', and 'Sign Out'. Below the menu is a toolbar with icons for 'insert', 'delete', 'expand', 'compress', 'sort', 'rounding', 'balance', 'calculate', and 'more'. The main area displays 'Compounding Period: Monthly' and 'Nominal Annual Rate: 6.000 %'. Below this is a table with the following columns: EVENT, DATE, AMOUNT, NUMBER, PERIOD, END DATE, SPECIAL SERIES, and MEMO. The table contains three rows: 1. Lease (01/01/2023, Unknown, 1), 2. Lease Payment (02/01/2023, 1,500.00, 48, Monthly, 01/01/2027), and 3. Residual (01/01/2027, 10,000.00, 1). The 'Unknown' value in the first row is circled in red. At the bottom left, there is a '+ Click here to add a new line' link.

EVENT	DATE	AMOUNT	NUMBER	PERIOD	END DATE	SPECIAL SERIES	MEMO
1 Lease	01/01/2023	Unknown	1				
2 Lease Payment	02/01/2023	1,500.00	48	Monthly	01/01/2027		
3 Residual	01/01/2027	10,000.00	1				

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?

File Amortization Schedule5 Sign Out Account

insert delete expand compress sort rounding balance calculate more

Compounding Period: Monthly Nominal Annual Rate: 6.000 % Label: College Savings Plan

	EVENT	DATE	AMOUNT	NUMBER	PERIOD	END DATE	SPECIAL SERIES	MEMO
1	Invest	01/01/2023	100.00	240	Monthly	12/01/2042	Amount Step	
2	Return	01/01/2043	Unknown	1				

+ Click here to add a new line

FINANCIAL PLANNING
EXAMPLE

Retirement Savings

Retirement Goal: \$1 million
Monthly Withdrawals: \$6,000
Annual Rate of Return: 4%

How Long Will My Funds Last?

File Amortization Retirement.TV6 Sign Out Account

insert delete expand compress sort rounding balance calculate more

Compounding Period: Monthly Nominal Annual Rate: 4.000 % Label: Retirement

EVENT	DATE	AMOUNT	NUMBER	PERIOD	END DATE	SPECIAL SERIES	MEMO
1 Deposit	01/01/2023	1,000,000.00	1				
2 Withdrawal	02/01/2023	6,000.00	Unknown	Monthly	Pending		

Click here to add a new line

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?

The screenshot shows the 'Pricing a Lease' software interface. At the top, there is a menu bar with 'File', 'Amortization', and 'Account' options. Below the menu bar is a toolbar with various icons for insert, delete, expand, compress, sort, rounding, balance, and calculate. The main area displays the following information:

- Compounding Period: Monthly
- Nominal Annual Rate: 10.000 %
- Label: Pricing a Lease

EVENT	DATE	AMOUNT	NUMBER	PERIOD	END DATE	SPECIAL SERIES	MEMO
1 Lease	01/01/2023	50,000.00	1				
2 Lease Payment	01/01/2023	2,000x	1				
3 Lease Payment	02/01/2023	Unknown	48	Monthly	01/01/2027		
4 Residual	01/01/2027	5,000	1				

Click here to add a new line

INTERNAL RATE OF RETURN CALCULATION EXAMPLE

Compounding Period: Daily
Investment (1/1/2023): \$1 million
Return (1/1/2024): 1.2 million

Internal Rate of Return (XIRR)

What is My Return on Investment?

The screenshot shows the IRR.TV6 software interface. At the top, there is a menu bar with 'File', 'Amortization', and 'Sign Out' options. Below the menu bar, there are various icons for file operations like insert, delete, expand, compress, sort, rounding, balance, and calculate. The main input area contains 'Compounding Period: Daily' and 'Nominal Annual Rate: Unknown', both of which are circled in red. To the right, there is a 'Label: IRR' field. Below the input fields is a table with the following data:

	EVENT	DATE	AMOUNT	NUMBER	PERIOD	END DATE	SPECIAL SERIES	MEMO
1	Loan	01/01/2023	1,000,000.00	1				
2	Payment	01/01/2024	1,200,000.00	1				

At the bottom left of the interface, there is a link: '+ Click here to add a new line'.

AUDITING OF EXCEL

“Excel Does Not Guarantee Excellence”

Terms: years	30	30 year Schedule		Balance due	15	years	
Initial 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 #	Due	Day/Mo	Begin Princ	Payment	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

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