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TIME VALUE OF MONEY

Year	First of Year Balance	Interest	End of Year Balance	% of Initial Investment
1	100	10	110	110%
2	110	11	121	121%
3	121	12	133	133%
4	133	13	146	146%

$\% \text{ of Initial Investment (Future Value Factor)} = (1 + \text{Interest Rate})^n \text{ \# of Years}$
 $\text{Present Value Factor} = 1 / (1 + \text{Interest Rate})^n \text{ \# of Years}$

TIME VALUE OF MONEY

Year	Beginning Balance	Plus Interest	Less Payment	Ending Balance
1	3,791	379	(1,000)	3,170
2	3,170	317	(1,000)	2,487
3	2,487	249	(1,000)	1,736
4	1,736	174	(1,000)	909
5	909	91	(1,000)	0

Number of turns on the solenoid – 15 turn / cm = 1500 turn / m

Number of turns per unit length, n = 1500 turns

The solenoid has a small loop of area, A = 2.0 cm² = 2 × 10⁻⁴ m²

Current carried by the solenoid changes from 2 A to 4 A.

Therefore, Change in current in the solenoid, di = 4 – 2 = 2 A

Change in time, dt = 0.1 s

According to Faraday's law, induced emf in the solenoid is given by:

$$e = \frac{d\phi}{dt} \dots (1)$$

Where,

ϕ = Induced flux through thee small loop

$$= BA \dots (2)$$

B = Magnetic field

=μ₀n*i*

μ₀ = Permeability of free space

$$= 4\pi \times 10^{-7} \text{ H/m}$$

Hence, equation (1) can be reduced to:

$$\begin{aligned} e &= \frac{d}{dt}(BA) \quad e = A\mu_0 n \times \left(\frac{di}{dt}\right) \\ &= 2 \times 10^{-4} \times 4\pi \times 10^{-7} \times 1500 \times \frac{2}{0.1} \\ &= 7.54 \times 10^{-6} \text{ V} \end{aligned}$$

Hence, the induced voltage in the loop is 7.54 × 10⁻⁶ V

How to do emi calculation in excel. Emi calculation in excel format. Calculation of emi in excel sheet a complete understanding. Home loan emi calculation in excel. Emi calculation in excel download. Personal loan emi calculation formula in excel. Emi and interest calculation in excel. Emi calculation chart in excel.

Issue invoices with complimentary compugst invoice. Automatic preparation of GSTR 1 of the Compugst invoice Add. Get ready, check and file returns in simple steps. Import data from the department’s website. All returns can be prepared without connection. Control and alerts by time pay-time via SMS/e-mail to the customer. Automatic archiving of registration/return forms on the GST site. Interact with your accounting package to eliminate the differences between the archived data and the accounting data / instruction files created for auto-update in your accounting software. Informative dashboard for various task management, such as pending returns, taxes, etc. Authentication of returns via DSC / E-SIGN built-in. User management system for multiple flights with allowed access. Advanced sorting, filtering and search mechanisms for organized data. Efficient support system to solve all your queries / problems. Special export utilities for collecting data from the client’s computer and automatic connection with the client’s code in the professional’s office. Import data from accounting software / Excel. SMART comparing on the following imported/multiple imports. Automatic preparation of the return form based on input/import data. Automatic transfer of invoices to the next return period, where needed. Item, recipient, provider Masters to facilitate entry. Fetch Relevanty GSTR automatically for comparison/validation of invoices/data. Automatic action to accept/reject, etc. on the data received from counterparty GSTR. Data validation, coincidence / mismatch handled through artificial intelligence. Calculation of tax liabilities Management of liabilities, credit and conteders in ICT OF ITC. Automatic adjustment of ITC, TDS, TC, payments, reversion, etc. Validation and automatic pre-ncration to avoid errors in return forms. Validation of the Department’s website with data data / software data before the final presentation. Missing, ITC C₂ © and other useful reports. Earnings Actions Return Archive / Slope. Communicate the pendency to the supplier and the recipient through Two-variable data table in Excel (Table of Contents) Two-variable data table in Excel Two-variable data table in Excel allows users to test two variables or values at the same time or simultaneously in a data table for the created formula. It is only useful when the formula depends on several values that can be used for two variables. For the complete data table, we can test two input cells for a set of values based on the What-If analysis option, which is available in the Data Menu tab. How do I make a bivariate data table in Excel? Two-variable data table in Excel is very simple and easy to create. Let’s understand the work of the Two Variable Data Table in Excel by a few examples. Two-way data table in Excel Example #1 Create two variable data tables for the amount of loan and different months Prerequisite: Write a sample cycle. As mentioned in the workbook Example #1. Assume a total loan amount, i.e. 1,000,000.00, Interest Rate (Year), i.e. 6%, Number of the month for EMI/Payment, i.e. 1st Month and apply PMT formulae (=PMT (C3/12, C4, C2)) to calculate the EMI. The result is shown below: Step 1: Enter the desired months in column E and the amount of loan in row 4 Step 2: Enter all the desired months in column F Step 3: Enter the entire amount of the desired loan in the fifth row of a sheet. Step 4: Select cell F5 and the assigned value of cell C5, click Enter. Step 5: Now select all data sets from F5 to F16 and F5 to M5 Step 6: Go to Data tab > click on the toolbar from the What-if Analysis drop-down list to select Data Box. Step 7: Data The pop up of the table will appear with two input cells for the row, and the column LoSelect Amount of Loan in the input cell Row and no. of months for Payout in cell Column. Step 8: The result will be published by month the repayment amount of loans based on the combination of each month and the data set of the amount of loan. Summary of Example #1 As we can see in the table of data for each month and the amount of loan. If a user wants to want We borrow 2,000,000.00, then you need to pay äY -105,332.90 for the next 20 months as EMI. The same amount if a person wants to pay for the next 30 months, then -38,665.60 I need to pay as EMI. There are as many scenarios for several months and respective re-pay the amount as EMI. Two-way data table in Excel Example #2 Create a two-way workable data table for different types of amount and interest. Pre-requisite: Write a sample calculation. As mentioned in the workbook Example #2. Assume a total loan amount, i.e. 1,000,000.00, Interest Rate (Year), i.e. 2%, Number of the month for EMI/Payment, i.e. 1st Month and apply PMT formulas (=PMT (C3/12, C4, C2)) to calculate the EMI. The result is shown below: Step 1: Enter the desired interest rate in column D and the amount of loan in row 3 Step 2: Enter all the desired interest types of the user in column E. Step 3: Enter all the desired amount of loan in the fourth row. the blade. Step 4: Select cell E4 and the assigned value of cell C5, click Enter. Step 5: Now select all data sets from E4 to E15 and E4 to J4. Step 6: Go to Data Tab > click on the toolbar from the What-if Analysis drop-down list and select Data Box. Step 7: Data The table pop up will appear with two input cells for the row, and the column >Select Loan amount in the input cell Row and interest rate in the input cell Column. Step 8: The result will be published by month the repayment amount of loans according to the combination of different types of interest and the data set of the amount of loan. Summary of Example #2 As we can see in the data table for each type of interest and loan amount as a result. If a user wants to receive summary 2,000,000.00 loans, he needs to pay as EMI -203,684.97 for 4% of Rate of interest to the next 10 months. The same amount if a person wants to pay for the next type of interest of 3%, then † -202,760.30 I need to pay as EMI. There are so many scenarios for the institutions rate and the amount of payment corresponding as EMI. Component of data table entry data Enter the value for which a user filled a row and wishes to see the analyzed result. Column Input Cell: Enter the value for which a user filled a Column and wishes to see the analyzed result. When to Use Two Variables Data Table: If there are several scenarios for two input variables, then prefer two variables data table tools. If a user wants to use the PMT function, then the data table will be the best one to see multiple results by changing input values. Most people want to see EMI after changing the month and the amount of the loan for the constant interest rate for the calculation of the loan. If a user wants to change the value of the constant variable, it will reflect for the entire data table results matrix. Limitation of the data table in Excel You cannot use more than two variables as input parameter for the analysis because you have the limitation of using a variable or two variables. Data tables are calculated every time a user opens a book that has a data table. It doesn’t matter if the user changes in the workbook or not; to save this, the user needs to change the calculation option to Automatically recalculate the workbook, not the data table. After applying the data table, the user cannot edit or delete a single result because the result is an array. This will throw an error “You can’t change part of a data table.”Things to consider about the two variables data table in Excel If a user wants to edit or delete a part of the data table result, then select the entire array range and then press the Delete key in the keyboard. If the user wants to undo or Ctl+Z, it will not work, and the user needs to go with the previous method. Recommended Articles This has been a guide for Two Variables Data Table in Excel.We discuss how to create examples of two variables data tables and downloadable Excel templates. You can also view these useful functions in Excel

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