SATPREP

Calculation of Annuity and Using Finance Solver of TI-nspire

Interest rates and the frequency of the payments will greatly affect the amount of money earned / repaid.

Process to open Finanace solver window

Calculator -Menu - Finance - Finance solver

- N = No of total compounding periods
 I% = Rate of Interest (annually)
 PV = Present Value (0 if unknown)
 Pmt = Payment
 FV = Future value (0 if unknown)
- **PpY** = Payments per year
- **CpY** = Compounding periods per year
- **PmtAt** = When is the payment made (leave as END)

Note: PpY and CpY must always be the same

In three years time, Lajos' s friends want him join them on a back-packing trip across Europe. The trip will cost about \$ 4500. The best investiment plan he could find offers her 4% per year, compounded quarterly? How much money does he need to invest now to be able to pay for her trip in three years time ?

N = 12 I% = 4 PV =? **3993.52** Pmt = 0 FV = 4500 PpY = 4 CpY = 4 PmtAt = End

What annual interest rate was charges if an \$ 800 credit card bill grew to \$920.99 in 6 months and interest was compounded monthly?

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N = 6 I % = ?28.5 PV = \$800 Pmt = 0 FV = -920.99 PpY = 12 CpY = 12 Pmt At = End Istvan makes deposits of \$300 half yearly into an account that pay 4% per annum . How much money will be in his account after 5 years?

N = 10 I % = 4 PV = 0 Pmt = 300 FV = ? 3284.92 PpY = 2 CpY = 2 Pmt At = End

John has purchased a bike for \$ 1500. He is making monthly payments to the store for 2 years. The store charges 11% per year interest compounded monthly. How much is each monthly payment.

N = 24	
l % =11	4
PV = 1500	
Pmt = ? 69.91	
FV = 0	
PpY = 12	
CpY = 12	
Pmt At = End	