**Harold’s Finances**

**“Cheat Sheet”**

29 March 2022

|  |  |
| --- | --- |
|  | **Variable Descriptions** |
| Variables |  | |

|  |  |  |
| --- | --- | --- |
| **One-Time Investment** | **Formulas** | |
| **Simple Interest** | **Discrete** | **Continuous** |
| Simple Interest |  | *NA* |
| Future Value |  |
| Present Value |  |
| T-Bill |  |

|  |  |  |
| --- | --- | --- |
| **One-Time Investment** | **Formulas** | |
| **Compounded Interest** | **Discrete** | **Continuous** |
| Compounded Interest |  |  |
| Future Value | *If k = 1 (annually) then* |  |
| Present Value | *If k = 1 (annually) then* |  |
| Annual Interest Rate |  |  |
| Annual Percentage Yield (APY)  or Effective Interest Rate |  |  |
|  |

|  |  |  |
| --- | --- | --- |
| **Regular Payments** | **Formulas** | |
| **Compounded Interest** | **Future Value** | **Present Value** |
| Number of Periods or Compoundings |  | |
| Effective Interest Rate Per Period |  | |
| Cost of Loan  (Amount You Paid) |  | |
| Interest You Paid |  | |
| Value of an Ordinary Annuity  (PMT at end of period) |  |  |
|  |  |
| Value of an Annuity Due  (PMT at beginning of period) |  |  |
|  |  |
| Amortization Payment Amount |  |  |
|  |  |
| Remaining Balance |  |  |
|  |  |

|  |  |
| --- | --- |
| **Examples** | **Calculations** |
| **Savings Account:** | *If*  *If*  *If*  *If*  *If*  *If y* |
| **House Mortgage Payment:** |  |
| **Loan Cost Analysis** |  |