

FINANCE EQUATIONS & ANSWER

A STUDY GUIDE

TIME VALUE OF MONEY

AMORTIZATION EQUATIONS

A loan, such as a mortgage or car payment, in which the loan is paid off in equal periodic installments.

FORMULA

$$A = P \frac{r(1+r)^n}{(1+r)^n - 1}$$

Where:

A = payment Amount per period, P = initial Principal (loan amount)
 r = interest rate per period, n = total number of payments or periods.

ANNUAL PERCENTAGE RATE (APR)

Annual Percentage Rate (APR) is the interest rate that reflects all the costs of the loan during a one-year time period.

FORMULA (single payment)

$$\frac{\text{Average Annual Finance Charge}}{\text{Amount Borrowed or Proceeds Received}}$$

FORMULA (installments)

$$\frac{2MC}{P(N+1)}$$

Where:

M = number of payment periods in one year; N = number of scheduled payments; C = finance charges in dollars; P = original proceeds.

EFFECTIVE ANNUAL RATE

Is used to determine the actual annual rate that would be paid on a loan or investment if the stated annual rate is affected by compounding.

FORMULA

$$EAR = \left(1 + \frac{k}{m}\right)^m - 1$$

Where:

k = Nominal interest rate, m = Compounding frequency per year

EFFECTIVE INTEREST RATE

Real rate of interest on a loan.

FORMULA

$$\frac{\text{Nominal Interest on Four Loans}}{\text{Net Proceeds of Loans}}$$

FUTURE (COMPOUND) VALUE

The future value of money is how much it will be worth at some time in the future. The future value formula shows how much an investment will be worth after compounding for so many years.

FORMULA

$$F = P(1+r)^n$$

Where:

F = the future value of the investment, P = the present value r = rate and n = time.

CAPITAL BUDGETING & DISCOUNTED CASH FLOW APPLICATIONS

CERTAINTY - EQUIVALENT APPROACH

The certainty equivalent approach is a guaranteed return that someone would accept, rather than taking a chance on a higher, but uncertain, return.

FORMULA: After-Tax Cash Inflow x Certainty-Equivalent Coefficient

NET PRESENT VALUE (NPV)

NPV is used in capital budgeting to analyze the profitability of an investment or project. NPV analysis is sensitive to the reliability of future cash inflows that an investment or project will yield.

FORMULA

$$NPV = \sum_{t=1}^T \frac{\text{cash flow}_t}{(1+r)^t} - C_0$$

Where:

- T = time, t = cash flow period
- r = interest rate assumption
- C_0 = initial investment

INTERNAL RATE OF RETURN (IRR)

The discount rate often used in capital budgeting that makes the net present value of all cash flows from a particular project equal to zero. Generally speaking, the higher a project's internal rate of return, the more desirable it is to undertake the project.

FORMULA

$$0 = \sum_{j=1}^n CF_j \cdot \left[\frac{1 - (1+IRR)^{-n}}{IRR} \right] \cdot \left[(1+IRR)^{-\text{Time}} \right] + CF_0$$

Where:

- n = number of cash flow
- CF_j = cash flow at period j .
- IRR = Internal Rate of Return

Finance Equations Answers

Lingjun Ying



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