



Important Formulas of Investment

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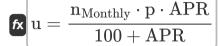
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List of 17 Important Formulas of Investment

Important Formulas of Investment 🗗

1) Actuarial Method Unearned Interest Loan



2) Annuity Payment

$$ext{PMT} = rac{ ext{r} \cdot ext{PV}}{1 - (1 + ext{r})^{- ext{n}}}$$

3) Capital Gains Yield

$$ext{CGY} = rac{P_c - P0}{P0}$$



4) Certificate of Deposit

$$ext{CD} = ext{P0}_{ ext{Deposit}} \cdot \left(1 + \left(rac{ ext{r}_{ ext{Annual}}}{ ext{n}_{ ext{c}}}
ight)
ight)^{ ext{n}_{ ext{c}} \cdot ext{n}_{ ext{t}}}$$

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5) Compound Interest

$$\mathbf{FV} = \mathbf{A} \cdot \left(1 + \left(\frac{\mathbf{i}}{\mathbf{n}}\right)\right)^{\mathbf{n} \cdot \mathbf{T}}$$

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$$\boxed{1.6\mathrm{E}^{\hat{}}9 = 100000 \cdot \left(1 + \left(\frac{8}{2}\right)\right)^{2\cdot 3}}$$

6) Information Ratio

$$m R_{Info} = rac{R_{p} - BR}{TE}$$

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$$\boxed{0.25 = \frac{5-3}{8}}$$

7) Jensen's Alpha

$$lpha = \mathrm{Rp} - (\mathrm{Rf} + eta \mathrm{p} \cdot (\mathrm{Rm} - \mathrm{Rf}))$$

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$$\boxed{ 11.585 = 12 - (0.5 + 0.85 \cdot (0.40 - 0.5)) }$$



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8) Portfolio Standard Deviation

fx

$$\sigma \mathrm{p} = \sqrt{\left(\mathrm{w}_1
ight)^2 \cdot \sigma_1^2 + \left(\mathrm{w}_2
ight)^2 \cdot \sigma_2^2 + 2 \cdot \left(\mathrm{w}_1 \cdot \mathrm{w}_2 \cdot \sigma_1 \cdot \sigma_2 \cdot \mathrm{p}_{12}
ight)}$$

ex

$$0.381499 = \sqrt{{{{(0.4)}^2} \cdot {{(0.37)}^2} + {{(0.6)}^2} \cdot {{(0.56)}^2} + 2 \cdot {{(0.4 \cdot 0.6 \cdot 0.37 \cdot 0.56 \cdot 0.108)}}}$$

9) Portfolio Variance

$$ext{Var}_{ ext{p}} = (ext{w}_1)^2 \cdot ext{\sigma}_1^2 + (ext{w}_2)^2 \cdot ext{\sigma}_2^2 + 2 \cdot (ext{w}_1 \cdot ext{w}_2 \cdot ext{\sigma}_1 \cdot ext{\sigma}_2 \cdot ext{p}_{12})$$

ex

$$0.145541 = (0.4)^2 \cdot (0.37)^2 + (0.6)^2 \cdot (0.56)^2 + 2 \cdot (0.4 \cdot 0.6 \cdot 0.37 \cdot 0.56 \cdot 0.108)$$

10) Profitability Index

 $ext{PI} = rac{ ext{NPV} + ext{Initial Invt}}{ ext{Initial Invt}}$

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$$= 1.35 = \frac{700 + 2000}{2000}$$

11) Rate of Return

$$\operatorname{RoR} = \left(\frac{\operatorname{CV} - \operatorname{OV}}{\operatorname{OV}}\right) \cdot 100$$

$$\boxed{\textbf{ex}} \boxed{30.43478 = \left(\frac{3000 - 2300}{2300}\right) \cdot 100}$$





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12) Real Rate of Return

Real RR $=\left(rac{1+\mathrm{NR}}{1+\mathrm{IR}}
ight)-1$ $\mathbf{ex} \ 0.818182 = \left(\frac{1+19}{1+10}\right) - 1$

13) Risk Premium

$RP = ROI - Rf_{return}$

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 $|\mathbf{ex}| \, 49988 = 50000 - 12$

14) Sharpe Ratio

 $ext{SR} = rac{ ext{R}_{ ext{p}} - ext{R}_{ ext{f}}}{\sigma ext{p}}$

 $\left| 0.357143 = rac{8-3}{14}
ight|$

15) Straight Line Depreciation

 $ext{SLD} = rac{ ext{C} - ext{S}_{ ext{s}}}{ ext{t}}$



$$TSR = \frac{(P1 - P0) + D}{P0}$$

$$(200 - 48.5) + 25$$





17) Treynor Ratio



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$$= 5.882353 = \frac{8-3}{0.85}$$



Variables Used

- A Principal Investment Amount
- APR Annual Percentage Rate
- BR Benchmark Return
- C Asset's Cost
- CD Certificate of Deposit
- · CGY Capital Gains Yield
- CV Current Value
- D Dividend
- FV Future Value of Investment
- i Annual Interest Rate
- Initial Invt Initial Investment
- IR Inflation Rate
- n Number of Periods
- n_c Compounding Periods
- n_{Monthly} Number of Remaining Monthly Payments
- nt Number of Years
- NPV Net Present Value (NPV)
- NR Nominal Rate
- OV Original Value
- p Monthly Payment
- p₁₂ Portfolio Correlation Coefficient
- Pc Current Stock Price
- P0 Initial Stock Price
- P0_{Deposit} Initial Deposit Amount
- P1 Ending Stock Price
- PI Profitability Index (PI)





- PMT Annuity Payment
- PV Present Value
- r Rate per Period
- R p Portfolio Return
- r_{Annual} Annual Nominal Interest Rate
- Rf Risk Free Rate
- R_{Info} Information Ratio
- R_p Expected Portfolio Return
- Real RR Real Rate of Return
- Rf Risk Free Interest Rate
- Rfreturn Risk Free Return
- Rm Annual return of the market benchmark
- ROI Return on Investment (ROI)
- RoR Rate of Return
- Rp Annual Return on Investment
- RP Risk Premium
- S_s Salvage
- SLD Straight Line Depreciation
- SR Sharpe Ratio
- t Life
- T Number of Years Money is Invested
- T_r Treynor's Ratio
- TE Tracking Error
- TSR Total Stock Return
- **u** Actuarial Method Unearned Interest Loan
- Var_p Portfolio Variance
- W₁ Asset Weight 1
- W2 Asset Weight 2





- α Jensen's Alpha
- βp Beta of the Portfolio
- σ₁ Variance of Returns on Assets 1
- σ₂ Variance of Returns on Assets 2
- σp Portfolio Standard Deviation





Constants, Functions, Measurements used

• Function: sqrt, sqrt(Number)

A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.





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