

FinQuiz Formula Sheet CFA Program Level I

QUANTITATIVE METHODS

Learning Module 1: Rates and Returns

- Interest Rate r**
 $r = \text{Real risk-free rate} + \text{Inflation premium} + \text{Default risk premium} + \text{Liquidity premium} + \text{Maturity premium}$
 Nominal risk-free rate = Real risk-free rate + Inflation premium
- Holding Period Return (HPR)**

$$R = \frac{(P_1 - P_0) + I_1}{P_0}$$
 where
 P_0 = price at the beginning of period
 P_1 = price at the end of period
 I_1 = income
- Arithmetic mean (AM)**

$$\bar{R}_n = \frac{R_{1,t} + R_{2,t} + \dots + R_{n,t-1} + R_{n,t}}{n}$$

$$= \frac{1}{n} \sum_{t=1}^n R_{i,t}$$

- Geometric Mean Return**

$$\bar{R}_n = \sqrt[n]{(1 + R_{1,t}) \times (1 + R_{2,t}) \times \dots \times (1 + R_{n,t})} - 1$$

where,
 R_t = return in period t
 n = total number of periods

- Harmonic Mean**

$$\bar{X}_n = n / \sum_{i=1}^n \left(\frac{1}{X_i} \right)$$
 with $X_i > 0$ for $i = 1, 2, \dots, n$.

- Money-weighted rate of return (MWR)**

$$IRR = \sum_{t=0}^T \frac{CF_t}{(1 + IRR)^t} = 0$$

where,
 IRR = internal rate of return
 T = number of periods
 CF_t = cash flow at time t

- Time-weighted Returns (TWR)**
 $R_{TWR} = \{(1 + r_1, 1)\} \times \{(1 + r_1, 2)\} \times \dots \times \{(1 + r_{1,n})\}^{1/n} - 1$

- Non-annual Compounding**
 PV (for more than one Compounding per year)

$$PV = FV_n \left(1 + \frac{r}{c} \right)^{-nc}$$

where r = stated annual rate

- Annualized Return**

$$r_{annual} = (1 + r_{nom})^{1/n} - 1$$

where,
 n = number of periods in a year
 $r_{annual} = (1 + r_{nom})^n - 1$
 $r_{nom} = (1 + r_{annual})^{1/n} - 1$

- Continuously Compounded Return (CCR)**
 CCR associated with a HPR (r to $1 + r$)
 $r_{c,c} = e^r - 1$ = holding period return or
 $r_{c,c} = \ln(\text{price relative}) = \ln(P_{1,t}/P_0) = \ln(1 + R_{1,t})$

CCR associated with a HPR (0 to R)
 $R_{c,c} = \ln(P_1/P_0)$ or
 $R_{c,c} = R_{1,t} + R_{2,t} + \dots + R_{n,t}$

- Gross Return**
 Gross return = Return - trading expenses - Other expense directly related to the generation of returns.

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- Net Return**
 Net Return = Gross Return - all managerial and administrative expenses.
- After-Tax Nominal Return**
 After-tax nominal return = Total return - any allowance for taxes on dividends, interest & realized gains.
- Real Returns**
 $(1 + r) = (1 + r_{rd}) \times (1 + \pi) \times (1 + RP)$
 $(1 + r_{real}) = (1 + r_{rd}) \times (1 + RP)$ or
 $(1 + r_{real}) = (1 + r) - (1 + \pi)$
 where,
 r = Nominal return
 r_{rd} = Real risk-free return
 π = Inflation
 RP = Risk premium

Learning Module 2: The Time Value of Money in Finance

- Present Value (PV) and Future Value (FV) Relation**

$$PV = \frac{FV}{(1 + r)^n}$$

$$FV = PV(1 + r)^n$$

- PV for Fixed Income**
Dividend Instrument:

$$PV = \frac{D_1}{(1 + r)^1}$$

- Coupon Instrument:**

$$P = \frac{PMT_1}{(1 + r)^1} + \frac{PMT_2}{(1 + r)^2} + \dots + \frac{PMT_n + FV_n}{(1 + r)^n}$$

- Perpetual Bond**
 $PV = PMT/r$

- Annuity Instruments**

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

A = periodic cash flow,
 r = market interest rate per period,
 PV = initial value/principal of the loan or bond,
 n = total no. of payment periods.

- PV for Equity**
Constant Dividends

$$PV = \frac{D_1}{r}$$

- Constant Dividend Growth Rate**

$$D_{1,t+1} = D_1(1 + g)$$

$$PV_0 = \sum_{t=1}^n \frac{D_t(1 + g)^{t-1}}{(1 + r)^t} + \frac{E(S_{1,t+n})}{(1 + r)^n}$$

where $E(S_{1,t+n})$ = stock value in n period

$$E(S_{1,t+n}) = \frac{D_{1,t+n}}{r - g}$$

- Implied Return for Fixed-Income**

$$\text{Implied return: } r = \left(\frac{FV_0}{PV_0} \right)^{1/n} - 1$$

$$PV(\text{Coupon Bond}) = \sum_{t=1}^n \frac{PMT_t}{(1 + r)^t} + \frac{FV_n}{(1 + r)^n}$$

- Implied Return and Implied Growth for Equity**

$$\text{Implied Return: } r = \frac{D_1(1 + g)}{PV_0} + g$$

$$\text{Implied Growth: } g = r - \frac{D_1}{PV_0}$$

where $D_1(1 + g) = D_{1,t+1}$

- Price-to-Earnings Ratio (P/E)**

$$\frac{PV_0}{E_1} = \frac{D_1}{E_1} \times \frac{(1 + g)}{r - g}$$

$$\text{where}$$

$$PV_0 = \frac{D_1(1 + g)}{r - g}$$

Finquiz Cfa Level I

K Morrison



Finquiz Cfa Level I:

The Top Books of the Year Finquiz Cfa Level I The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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