

PART I SCHWESER'S QuickSheet™

CRITICAL CONCEPTS FOR THE 2024 FRM® EXAM

FOUNDATIONS OF RISK MANAGEMENT

Types of Risk

- Key classes of risk include market risk, credit risk, liquidity risk, operational risk, legal and regulatory risk, business and strategic risk, and reputation risk.
- **Market risk** includes interest rate risk, equity price risk, foreign exchange risk, and commodity price risk.
 - **Credit risk** includes default risk, bankruptcy risk, downgrade risk, and settlement risk.
 - **Liquidity risk** includes funding liquidity risk and market liquidity risk.

Credit Risk Transfer Mechanisms

- Credit default swaps (CDSs)** enable investors to transfer credit risk on a loan product to an insurance company by paying a premium to buy downside protection.
- Collateralized debt obligations (CDOs)** enable loan originators to repack loan products into large baskets of loans and then sell those bundles of loans to investors on the secondary markets.
- Collateralized loan obligations (CLOs)** are very similar to CDOs except they primarily hold underwritten bank loans as opposed to the mortgage bias of CDOs.

Systematic Risk

A standardized measure of systematic risk is beta.

$$\text{Beta}_i = \frac{\text{Cov}(R_i, R_{M})}{\sigma_{M}^2}$$

Capital Asset Pricing Model (CAPM)

In equilibrium, all investors hold a portfolio of risky assets that has the same weights as the market portfolio. The CAPM is expressed in the equation of the security market line (SML). For any single security or portfolio of securities i , the expected return in equilibrium is:

$$E(R_i) = R_f + \text{Beta}_i[E(R_M) - R_f]$$

CAPM Assumptions

- Information is freely available.
- Markets are frictionless.
- Fractional investments are possible.
- There is perfect competition.
- Investors make their decisions solely based on expected returns and variances.
- Market participants can borrow and lend unlimited amounts at the risk-free rate.
- Expectations are homogeneous.

Measures of Performance

The **Sharpe measure** is equal to the risk premium divided by the standard deviation, or total risk.

$$\text{Sharpe measure} = \frac{E(R_P) - R_f}{\sigma_P}$$

The **Treynor measure** is equal to the risk premium divided by beta, or systematic risk.

$$\text{Treynor measure} = \frac{E(R_P) - R_f}{\beta_P}$$

The **Jensen measure** (i.e., Jensen's alpha or just alpha), is the asset's excess return over the return predicted by the CAPM.

$$\text{Jensen measure} = \alpha_P = E(R_P) - [R_f + \beta_P(E(R_M) - R_f)]$$

The **information ratio (IR)** is essentially the alpha of the managed portfolio relative to its benchmark, divided by the tracking error, where tracking error is the standard deviation of the difference between portfolio return and benchmark return.

$$\text{IR} = \frac{E(R_P) - E(R_B)}{\text{tracking error}}$$

The **Sorin ratio** is similar to the Sharpe ratio except we replace the risk-free rate with a minimum acceptable return, denoted R_{min} , and we replace the standard deviation with a type of downside deviation.

$$\text{Sorin ratio} = \frac{R_P - R_{\text{min}}}{\text{downside deviation}}$$

Arbitrage Pricing Theory (APT)

APT describes expected returns as a linear function of exposures to common risk factors.

$$E(R_i) = R_f + b_{i1}RP_1 + b_{i2}RP_2 + \dots + b_{in}RP_n$$

where:

b_{ij} = j th factor beta for stock i

RP_j = risk premium associated with risk factor j

APT defines the structure of returns but does not define which factors should be used in the model. The CAPM is a special case of APT with only one factor exposure: the market risk premium.

The **Fama-French three-factor model** describes returns as a linear function of the market index return, firm size, and book-to-market factors.

Risk Data Aggregation

Involves defining, gathering, and processing risk data for measuring performance against risk tolerance/appetite. Benefits include:

- Increases ability to anticipate problems
- Identifies routes to financial health
- Improves solvability in event of bank stress
- Increases efficiency, reduces chance of loss, and increases profitability

Enterprise Risk Management (ERM)

Integrated and centralized framework for managing firm risks in order to meet business objectives, minimize unexpected earnings volatility, and maximize firm value. Benefits include (1) increased organizational effectiveness, (2) better risk reporting, and (3) improved business performance.

Risk Factors for Financial Distress

Interest rate risk results from fluctuations in interest rate levels (measured using durations). Case study: the savings and loan (S&L) crisis in the 1980s.

Liquidity risk potential for loss that results from short-term funding issues. Case studies: Lehman Brothers, Continental Illinois, and Northern Rock.

Hedging strategies: a firm must choose between a static hedge and a dynamic (rolling) hedge. Case study on dynamic hedge challenges: Metallgesellschaft Refining and Marketing (MGRM).

Model risk can include making improper assumptions, measuring relationships the wrong way, and deploying the wrong model overall. Case studies: the Niederhoffer case and Long-Term Capital Management (LTCM).

Reputational risk: misleading reporting can cause the collapse of an entire organization. Case study: Ratings Bank (Nick Leeson).

Financial engineering involves the use of forwards, futures, swaps, options, and securitized products to hedge risk. Case studies on understanding the risks of these hedging tools: Bankers Trust, Orange County, and Sachsen Landesbank.

Reputational risk the way in which the general public perceives the firm. Case study: Volkswagen.

Corporate governance system of policies and procedures that direct how a firm is operated. Case study: Enron.

Cyber risk risk of financial or reputational loss due to cyberattack on internal technology infrastructure. Case study: the SWIFT system.

Financial Crisis of 2007–2009

Contributing factors: (1) banks relaxed their lending standards with move to originate-to-distribute model (increased subprime lending), (2) institutions increasingly funded themselves using short-term facilities (increased liquidity risk), and (3) the Lehman Brothers default caused a loss of confidence with banks refusing to lend to each other, and ultimately requiring central banks to provide liquidity support.

GARP Code of Conduct

Sets forth principles related to ethical behavior within the risk management profession.

It stresses ethical behavior in the following areas:

Principles

- Professional integrity and ethical conduct
- Conflicts of interest
- Confidentiality

Professional Standards

- Fundamental responsibilities
 - Adherence to best practices
- Violations of the Code of Conduct may result in temporary suspension or permanent removal from GARP membership. In addition, violations could lead to a revocation of the right to use the FRM designation.

QUANTITATIVE ANALYSIS

Probabilities

Unconditional probability (marginal probability) is the probability of an event occurring.

Conditional probability, $P(A|B)$, is the probability of an event A occurring given that event B has occurred.

Bayes' Rule

Updates prior probability for an event in response to the arrival of new information.

$$P(A|B) = \frac{P(B|A) \times P(A)}{P(B)}$$

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web jun 13 2012 synopsis chapter 1 it is true that i have sent six bullets through the head of my best friend and yet i hope to show by this statement that i am not his murderer at first i shall be called a madman madder than the man i shot in his cell at the arkham sanitarium later some of my readers will weigh each statement correlate it with the

the thing on the doorstep by h p lovecraft audible com - Oct 28 2022

web yet when edward s marriage led him into a study of the dark arts it drove a wedge of horror between these best of friends in this classic stand alone tale of horror occultism and madness h p lovecraft adds to his mythos with a tale that builds on the story of the escape from innsmouth

the thing on the doorstep apple tv - Dec 18 2021

web the thing on the doorstep horror a psychological horror film based on the short story by h p lovecraft daniel upton s relationship with his friend edward derby is abruptly changed after edward becomes romantically involved with asenath waite a hypnotist with an odd reputation

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web 1 day ago and there s a big potential market at nearly 4 4 million the indian american population has grown by more than 50 between 2010 and 2020 according to 2020 us census data which includes groups

the thing on the doorstep quotes by h p lovecraft goodreads - Jan 31 2023

web the thing on the doorstep quotes showing 1 10 of 10 there are horrors beyond life s edge that we do not suspect and

once in a while man s evil prying calls them just within our range h p lovecraft the thing on the doorstep tags horror
[the thing on the doorstep lovecraft encyclopedia lovecraft](#) - Mar 01 2023

web the thing on the doorstep is a short story written by h p lovecraft part of the cthulhu mythos genre of horror fiction it was written in august 1933 and first published in the january 1937 issue of weird tales

the thing on the doorstep 2014 imdb - Sep 26 2022

web the thing on the doorstep is actually one of my favorite of lovecraft s lesser mythos stories there are some genuinely creepy ideas going on in it and this movie caught on to them and even expanded them in ways that i felt were in keeping with the spirit of the tale

the thing on the doorstep and other weird stories goodreads - Jun 04 2023

web a definitive edition of stories by the master of supernatural fiction howard phillips lovecraft s unique contribution to american literature was a melding of traditional supernaturalism derived chiefly from edgar allan poe with the genre of