





Exam Focus

- Portfolio management process
- Types of investors
- Types of pension plans
- Asset management industry
- Pooled investments

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Portfolio Approach

- Portfolio perspective
 - Risk and return
- Diversification ratio
 - Risk reduction

Diversification Ratio: Example

- Average standard deviation of returns for *n* stock is 20%
- Average standard deviation of returns for an equally weighted portfolio of the *n* stocks is 15%
- Diversification ratio =

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Portfolio Management Process

- Planning
 - Investment policy statement
- Execution
 - Top-down analysis
 - Bottom-up analysis
- Feedback
 - Rebalance

Portfolios: Example

Portfolios are *most likely* to provide?

- A. Risk reduction.
- B. Risk elimination.
- C. Downside protection.

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Portfolio Selection: Example

Portfolio	Equity %	Fixed Income %	Alternative Investments %
1	55	35	10
2	45	50	5
3	65	20	15

Which of these portfolios is *most likely* suitable for a low-risk-tolerant investor?

- A. Portfolio 1.
- B. Portfolio 2.
- C. Portfolio 3.

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Types of Investors

- Individual investors
- Institutions
- Banks
- Insurance companies
- Investment companies
- Sovereign wealth funds

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Characteristics of Different Types of Investors

Investor	Risk Tolerance	Investment Horizon	Liquidity Needs	Income Needs
Individuals	Depends	Depends	Depends	Depends
Banks	Low	Short	High	Pay interest
Insurance	Low	Long—life Short—P&C	High	Low
Defined pension plans	High	Long	Low	Depends on age

Types of Investors: Example

Which of the following investors will *most likely* have the shortest time horizon?

- A. Endowments.
- B. Life insurance companies.
- C. Banks.

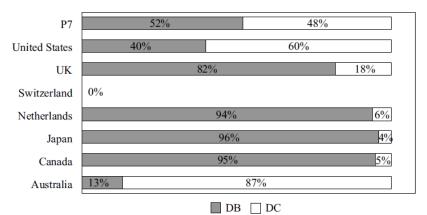
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Types of Pension Plans

- Defined contribution
 - Employer does not promise benefit
 - Employee bears investment risk
- Defined benefit
 - Employer promises benefit
 - Employer bears investment risk





Notes: "P7" represents the combination of the seven countries listed. No data were available for Switzerland for this study.

Sources: Willis Towers Watson and secondary sources.

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Asset Management Industry

- Buy-side firms
- Sell-side firms
- Asset managers
- Multi-boutique firm
- Robo-advisors

Types of Pooled Investments

- Mutual funds
- Exchange-traded funds (ETFs)
- Separately managed accounts
- Hedge funds
- Private equity funds
- Venture capital funds

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Exchange-Trade Funds: Example

Which of the following statements regarding exchange-traded funds (ETFs) is *least accurate*? ETFs:

A. are usually passively managed.

B. may trade at prices significantly different from their net asset values.

C. may produce less capital gains liability than open-end index funds.

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Solutions

Diversification Ratio: Example

- Average standard deviation of returns for *n* stock is 20%
- Average standard deviation of returns for an equally weighted portfolio of the n stocks is 15%
- Diversification ratio = 15% / 20% = 0.75

Portfolios: Example

Portfolios are *most likely* to provide?

- (A.)Risk reduction.
- B. Risk elimination.
- C. Downside protection.

Combining assets into a portfolio should reduce the portfolio's volatility. However, the portfolio approach does not necessarily provide downside protection or eliminate all risk.

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Portfolio Selection: Example

Portfolio	Equity %	Fixed Income %	Alternative Investments %
1	55	35	10
2	45	50	5
3	65	20	15

Which of these portfolios is *most likely* suitable for a low-risk-tolerant investor?

A. Portfolio 1.

B. Portfolio 2.

C. Portfolio 3.

Portfolio 2 has the least exposure to equities and alternative investments when compared to the other two portfolios. These two asset classes generally exhibit greater volatility than fixed income.

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Types of Investors: Example

Which of the following investors will *most likely* have the shortest time horizon?

A. Endowments.

B. Life insurance companies.

C.)Banks.

Banks need adequate liquidity to meet investor withdrawals. Endowments and life insurance companies have long-term investment horizons.

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Exchange-Trade Funds: Example

Which of the following statements regarding exchange-traded funds (ETFs) is *least accurate*? ETFs:

A. are usually passively managed.

B.may trade at prices significantly different from their net asset values. C. may produce less capital gains liability than open-end index funds.

ETFs are designed to keep their market prices close to their net asset values. ETFs are most often invested to match a particular index (passively managed). ETFs may produce less capital gains liability compared to open-end index funds because investor sales of ETF shares do not require the fund to sell any securities.

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