

What is the Risk-Return Tradeoff?

Worksheet

The risk-return tradeoff states: higher expected return = higher risk of loss. Bonds are safer but pay less; stocks are volatile but offer growth potential. Choose based on your risk tolerance and time horizon.

Questions

1. Which investment offers the lowest risk but also lowest return?

- A) Growth stocks
- B) Cash/money market
- C) Emerging markets
- D) Penny stocks

2. An investor with 30 years until retirement should prioritize...

- A) Maximum safety
- B) Maximum growth (higher stock allocation)
- C) Bonds only
- D) Avoiding markets

3. What is the relationship between risk and return?

- A) High risk always means high returns
- B) Higher risk = higher expected return (but more volatility)
- C) Risk and return are unrelated
- D) Lower risk always better

4. Which is true about bonds vs stocks?

- A) Bonds are riskier
- B) Stocks are riskier but offer higher long-term returns
- C) Both are equally risky
- D) Bonds always win

5. A conservative investor is offered a 2% return (bonds) or 8% return (growth stocks). What are the tradeoffs?

6. An investor has 20 years until retirement. Can they afford higher risk?

7. A new investor with €10k has high risk tolerance. How much should go to crypto (80% volatility) vs bonds (5% volatility)?

8. Define: What is the risk-return tradeoff?

9. Define: Why do stocks return more than bonds?

10. Define: What is volatility?

Answer Key

1. B) Cash/money market — Cash is safest but inflation erodes value; bonds are next; stocks offer growth but volatility.
2. B) Maximum growth (higher stock allocation) — Long time horizon absorbs market crashes; higher equity allocation grows wealth more.
3. B) Higher risk = higher expected return (but more volatility) — Risk and return are positively correlated; investors get paid for bearing risk.
4. B) Stocks are riskier but offer higher long-term returns — Stocks are volatile; bonds are stable; historically, stocks beat inflation better long-term.
5. Bonds: 2% yearly, stable, predictable, low volatility. Growth stocks: 8% average, but can gain 30% or lose 20% in a year. Tradeoff: +6% extra return vs. risk of double-digit losses and sleepless nights. Decision: depends on risk tolerance and need for stability.
6. Time horizon = 20 years — enough to weather market crashes (2008, 2020). Historically, stocks +10% year, bonds +4% year over 20-year spans. Risking 40% stocks vs 60% bonds gives +6% extra return compounded. 20 years of compounding justifies higher volatility. Shorter horizons (<5 years) → lower risk advisable.
7. High risk tolerance ≠ all eggs in crypto basket. Recommended: €5k (50%) balanced portfolio + €5k (50%) crypto/high-risk. Not: €8k crypto — catastrophic loss would devastate emergency fund. Risk tolerance is bounded by financial capacity; mismatch = ruin.
8. Higher expected returns require accepting higher risk of loss. Lower-risk investments yield lower returns.
9. Stocks are riskier (higher volatility); investors demand higher expected returns as compensation.
10. The size and speed of price swings; high volatility = high risk = high potential returns or losses.

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