

Course Overview M1: Credit Risk and Financing M2: Return and Volatility M3: Correlation

FM Forum M3

O Required Readings O Lesson Notes LESSON 2: CORRELATION O Required Readings O Lesson Notes

LESSON 1: PORTFOLIO RETURNS AND STANDARD DEVIATIONS

LESSON 3: EXCHANGE-TRADED FUNDS O Required Readings O Lesson Notes LESSON 4: VOLATILITY AND CORRELATIONS O Required Readings O Lesson Notes MODULE 3 SUMMARY O Correlation Screencast ASSESSMENTS

O FM Practice Quiz M3 O FM Graded Quiz M3 M4: Leverage and Nonlinearity M5: Liquidity and Regulation

25/01 560 FINANCIAL MARKETS

<

Piazza My Courses 🗸

Grades Calendar

		_
		Q



Home > My Courses > Financial Markets > M3: Correlation > FM Graded Quiz M3

FM Graded Quiz M3

Question 1	According to "Special Feature: Evaluating Changes in Correlations during Periods of High Market Volatility.", what is the primary reason for increased correlations between asset returns during periods of high market volatility?	Time left: 42:29
	A natural consequence of probability theory even if the underlying relationships remain unchanged	1234 6789
	Contagion effects between markets	11 12 13 14
	New market structures or practices	16
	Changes in the underlying relationships that determine returns	
Question 2	What is the main advantage of using the Sharpe ratio over the Coefficient of Variation?	
	The Sharpe ratio is easier to calculate	
	The Sharpe ratio accounts for the risk-free rate	
	The Sharpe ratio is always positive	
	The Sharpe ratio works better for non-normal distributions	
Question 3	According to "Financial Management for Small Businesses", what does a beta coefficient of 0.48 for a potential new investment indicate?	
	The new investment will eliminate 48% of the firm's portfolio risk	
	A 10% change in the firm's portfolio return will likely be accompanied	
	by a 4.8% change in the new investment's return	
	The new investment will increase the firm's portfolio risk by 48%	
	 48% of the new investment's return is independent of the firm's portfolio return 	
Question 4	Assume that a portfolio consists of two equally weighted assets having returns of 5% and 11%, standard deviations of 3% and 8% respectively, and the correlation between the two assets is 1. What is the reduction in volatility if the correlation was -0.5 instead?	
	• 0.00	
	0.02	
	0.003	
	-0.02	
Question 5	If an asset allocation ETF charges 0.25% annually and you invest \$50000 what would be your annual fee?	
	\$125	
	\$100\$175	

Question 6

How might you create a hedging strategy using ETFs to protect against potential market downturns?

	 Combine long positions in broad market ETFs with short positions in volatile sector ETFs or inverse ETFs
	O Increase leverage by borrowing to buy more of the same ETFs
	Invest all assets in a single sector ETF
	Sell all ETF holdings and hold only cash
Question 7	Calculate the Sharpe ratio for a portfolio with return 8%, risk-free rate 1%, and standard deviation 5.162%.
	O 1.215
	O 1.4
	O 1.3
	1.356
Question 8	If an ETF tracking the S&P 500 has a correlation of 0.98 with the index, what is its tracking error?
	•
	0.02%
	0.98%
	O 1%
	○ 2%
Question 9	How does volatility typically affect correlations between asset classes?
	O Volatility has no effect on correlations
	High volatility often leads to higher correlations
	High volatility always leads to lower correlations
	O Low volatility always leads to higher correlations
Question 10	Propose a method to incorporate illiquid assets into a portfolio while
	maintaining accurate risk and return calculations. What challenges would you need to address?
	Develop a robust mark-to-model approach with regular valuation updates and stress testing
	Exclude all illiquid assets from the portfolio
	Assume illiquid assets have the same risk-return profile as liquid assets
	Use only historical data for illiquid assets
Question 11	Which of the following boot describes the relative by between 2
_200401111	Which of the following best describes the relationship between Pearson's and Spearman's correlation coefficients?
	Pearson's is always larger than Spearman's
	They are always equal
	Spearman's is always larger than Pearson's
	Spearman's is usually larger than Pearson's
Question 12	If a portfolio consists of two assets with standard deviations of 6% and 2% respectively and a correlation of 0.5 what is the portfolio standard

deviation for equal weights?

	4.00%
	O 5.20%
	3.60%
Question 13	If two assets have a correlation of 0.5 and individual volatilities of 15% and 20% what is their covariance?
	0.025
	0.01
	O.02
	• 0.015
Question 14	What is the primary focus of sector selection in ETF investing?
	Individual company performance analysis
	Individual company performance unarysis
	Macro-economic modeling and understanding of business cycles
	Macro-economic modeling and understanding of business cycles Predicting short-term individual stock rallies
	Macro-economic modeling and understanding of business cycles Predicting short-term individual stock rallies Technical analysis of stock charts
	Predicting short-term individual stock rallies Technical analysis of stock charts
Question 15	Predicting short-term individual stock rallies
Question 15	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50
Question 15	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50 per share, and Stock B has 200 shares at \$25 per share.
Question 15	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50 per share, and Stock B has 200 shares at \$25 per share.
Question 15	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50 per share, and Stock B has 200 shares at \$25 per share. 0.6 0.5
Question 15 Question 16	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50 per share, and Stock B has 200 shares at \$25 per share. 0.6 0.5 0.33
	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50 per share, and Stock B has 200 shares at \$25 per share. 0.6 0.5 0.33 0.4 If a US-exchange-traded ETF's NAV is calculated at 11:30 AM ET due to tracking a European index and the US exchange closes at 4:00 PM ET,
	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50 per share, and Stock B has 200 shares at \$25 per share. 0.6 0.5 0.33 0.4 If a US-exchange-traded ETF's NAV is calculated at 11:30 AM ET due to tracking a European index and the US exchange closes at 4:00 PM ET, what time frame is considered the NAV of this ETF 'stale'?
	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50 per share, and Stock B has 200 shares at \$25 per share. 0.6 0.5 0.33 0.4 If a US-exchange-traded ETF's NAV is calculated at 11:30 AM ET due to tracking a European index and the US exchange closes at 4:00 PM ET, what time frame is considered the NAV of this ETF 'stale'? 9:30 AM ET - 11:30 AM ET
	Predicting short-term individual stock rallies Technical analysis of stock charts Calculate the weight of Stock A in a portfolio if it has 100 shares at \$50 per share, and Stock B has 200 shares at \$25 per share. 0.6 0.5 0.33 0.4 If a US-exchange-traded ETF's NAV is calculated at 11:30 AM ET due to tracking a European index and the US exchange closes at 4:00 PM ET, what time frame is considered the NAV of this ETF 'stale'? 9:30 AM ET - 11:30 AM ET 12:00 PM ET - 4:00 PM ET

4.27%

UBMIT



