

! Try again once you are ready

TO PASS 67% or higher



GRADE 62.50%

Trading Concepts Review

LATEST SUBMISSION GRADE 62.5%

✓ Correct

1.	Whi	ch of these are common types of quantitative trading strategies?	0.75 / 1 point
		Forecasting	
	~	Mean reversion	
	•	Correct Mean reversion of prices or returns is one of the three correct answers. Please refer to the video on "Quant Strategies" to learn the other two.	
	~	Correlation/Cointegration	
	•	Correct Correlation/ co-integration of prices is one of the three correct answers. Please refer to the video on "Quant Strategies" to learn the other two.	
		Dickey-Fuller	
		You didn't select all the correct answers	
2.	whe	ock is observed to have an average price of 50 with a +/- 5 variation over the past 100 trading days. You buy en the stock reaches 45 and sell when it reaches 55. What kind of arbitrage is this? Carry Statistical	1/1 point
	0		
	0	Merger Liquidation	
	,	Correct Statistical arbitrage is the correct answer. This is similar to the example given in Statistical Arbitrage-Mean Reversion.	
3.	Whi	ch of these are challenges in statistical arbitrage?	1/1 point
	~	Trading, clearing, and exchange fees	
	,	Correct Trading, clearing, and exchange fees are a drag on trading profitability, especially for high-frequency trading. Please refer to the video on Statistical Arbitrage Opportunities and Challenges for other costs.	
	~	Risk-based charges	
	•	Correct Risk-based charges are a drag on trading profitability, especially for high-risk trading. Please refer to the video on Statistical Arbitrage Opportunities and Challenges for other costs.	
	~	Short sale interest	

		Short sale interest is a drag on trading profitability, especially for stocks that are being shorted heavily by other traders. Please refer to the video on Statistical Arbitrage Opportunities and Challenges for other costs.				
~	Pa	ying for liquidity				
	~	Correct Paying for liquidity is a drag on trading profitability, especially for thinly traded stocks that have high bid-ask spreads. Please refer to the video on Statistical Arbitrage Opportunities and Challenges for other costs.				
Wh	Which of these are valid uses of backtesting?					
~	Qι	uantify the hypothetical performance of your strategy for comparison with other strategies.				
	~	Correct Backtesting allows you to quantify the hypothetical performance of several candidate strategies so that you can choose those that have the highest return potential in live trading. Please refer to the video on Introduction to Backtesting for other valid uses.				
	Pr	edict likely capital requirements, trade frequency and risk for your portfolio.				
~	En	sure that your strategy will be profitable in live trading.				
	!	This should not be selected Backtesting is not a guarantee that your strategy will be profitable in live trading. There is no way to guarantee the performance of a strategy, only to try to maximize its likely performance. Please refer to the video on Introduction to Backtesting for valid uses.				
~	De	etermine your maximum drawdown for your strategy in live trading				
	!	This should not be selected Backtesting is not a guarantee that your strategy will not suffer a much larger drawdown in live trading. There is no way to guarantee the level of risk of a strategy, only to try to minimize its likely drawdown. Please refer to the video on Introduction to Backtesting for valid uses.				
Which of these are common biases in back-testing?						
Risk bias						
~	Op	otimization bias				
	~	Correct Optimization bias, which refers to the tendency to overfit your model to the data, along with look-ahead bias, survivorship bias and drawdown tolerance bias are four of the main potential weaknesses of backtesting.				
~	Lo	ok-ahead bias				
	~	Correct Look-ahead bias, where you inadvertently incorporate future data in your backtest, along with optimization bias, survivorship bias and drawdown tolerance bias are four of the main potential weaknesses of backtesting.				
~	Su	rvivorship bias				
	~	Correct Survivorship bias, where you exclude stocks of companies that are no longer trading, along with optimization bias, look-ahead bias and drawdown tolerance bias are four of the main potential weaknesses of backtesting.				
	Statistical arbitrage and index arbitrage account for most of the volume in quantitative trading. Please select the examples of stat arb from the choices below:					
0		lling an asset on one trading venue at 110 and simultaneously buying it back for 109.90 at a different trading nue.				
0	Se	lling an asset on one trading venue at 110 and buying it back later for 109 at a different trading venue.				
•		lling a basket of stocks that matches the composition of the S&P 500 for \$300,000 and simultaneously buying 00 shares of the SPY ETF for \$299.70.				

4.

5.

6.

Incorrect

No, this is index arbitrage since you are trading a basket of stocks for something that matches a stock index. The key term here is "simultaneously", so there is very little risk that this trade won't be profitable. Stat arb trades are made at different times and expose you to the risk of taking a loss if the market trades in the opposite direction from your prediction.