

## ✓ Congratulations! You passed!

TO PASS 67% or higher



GRADE 100%

## **Trading Concepts Review**

LATEST SUBMISSION GRADE 100%

Short sale interest

1	00 / 0	
1.	Which of these are common types of quantitative trading strategies?  Forecasting	1/1 point
	✓ Correct Forecasting prices is one of the three correct answers. Please refer to the video on "Quant Strategies" to learn the other two.	
	✓ 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	
	<ul> <li>Correct</li> <li>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.</li> </ul>	
	☐ Dickey-Fuller	
2.	A stock is observed to have an average price of 50 with a +/- 5 variation over the past 100 trading days. You buy when the stock reaches 45 and sell when it reaches 55. What kind of arbitrage is this?  Carry  Statistical  Merger  Liquidation	1/1 point
	<ul> <li>Correct         Statistical arbitrage is the correct answer. This is similar to the example given in Statistical Arbitrage-Mean Reversion.     </li> </ul>	
3.	Which of these are challenges in statistical arbitrage?  ✓ Trading, clearing, and exchange fees	1/1 point
	<ul> <li>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.     </li> </ul>	
	✓ 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.	

<b>✓</b>	Correct  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.	
<b>✓</b> Pa	aying 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.	
	of these are valid uses of backtesting? uantify the hypothetical performance of your strategy for comparison with other strategies.	1 / 1 poin
~	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.	
<b>✓</b> Pr	redict likely capital requirements, trade frequency and risk for your portfolio.	
<b>~</b>	Correct  Backtesting is useful for predicting likely capital requirements, trade frequency and strategy risk. Please refer to the video on Introduction to Backtesting for other valid uses.	
_ En	nsure that your strategy will be profitable in live trading.	
_ De	etermine your maximum drawdown for your strategy in live trading	
<b>⊘</b> O <sub>I</sub>	ptimization bias	
<b>✓</b>	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	ook-ahead bias	
<b>~</b>	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.	
<b>✓</b> Su	urvivorship bias	
<b>~</b>	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.	
Se ve	tical arbitrage and index arbitrage account for most of the volume in quantitative trading. Please select the ples of stat arb from the choices below: elling an asset on one trading venue at 110 and simultaneously buying it back for 109.90 at a different trading enue.	1 / 1 poin
	elling a basket of stocks that matches the composition of the S&P 500 for \$300,000 and simultaneously buying 300 shares of the SPY ETF for \$299.70.	

the opposite direction from from your prediction.