# View Report

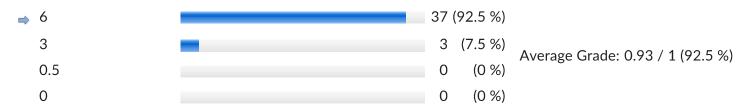
# R1

(Number of First Attempts: 40)

MCQ

# Question 1

An AR(1) process is Y(t) = 3 + 0.5Y(t-1) + e(t). What is the unconditional mean of the process?



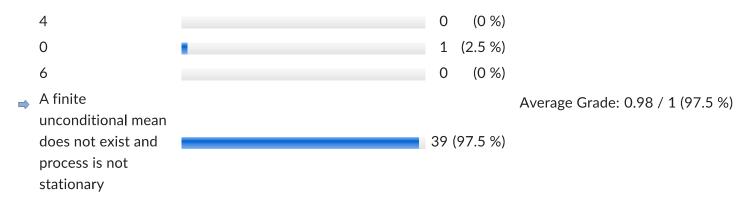
#### Question 2

An AR(1) process is Y(t) = 2 + 0.5Y(t-1) + e(t). What is the unconditional variance of the process if variance of the error term is 0.5?



### **Question 3**

An AR(1) process is Y(t) = 2 + 6Y(t-1) + e(t). What is the unconditional mean of the process?



# **Question 4**

What is the unconditional mean of the following MA(2) process: Y(t) = 5 + 0.1e(t-1) + 0.2e(t-2) + e(t)



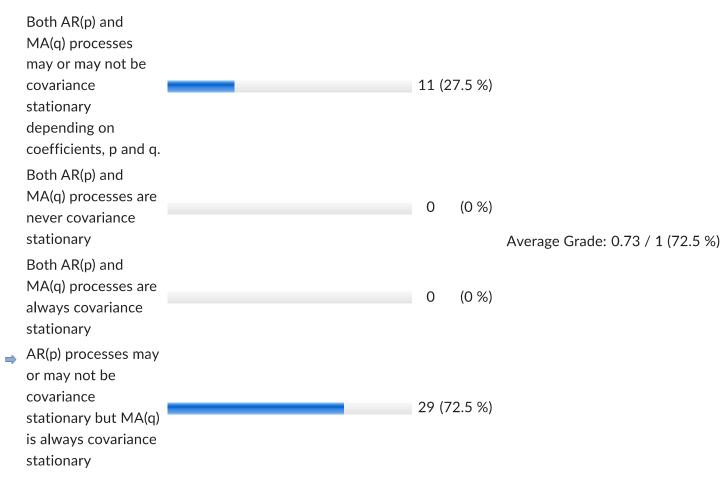


(0 %)

# Question 5

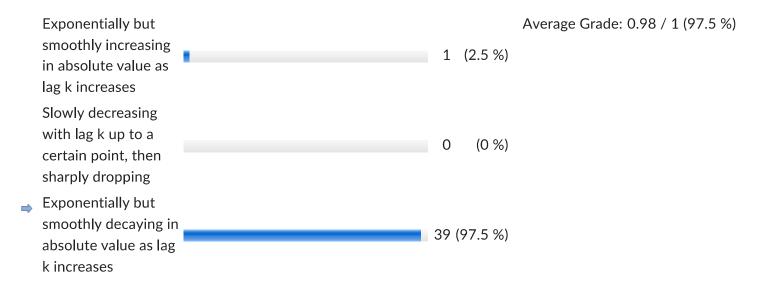
25

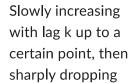
Which of the following is true of AR(p) and MA(q) processes?



# Question 6

What is a characteristic of ACF for an AR(1)?

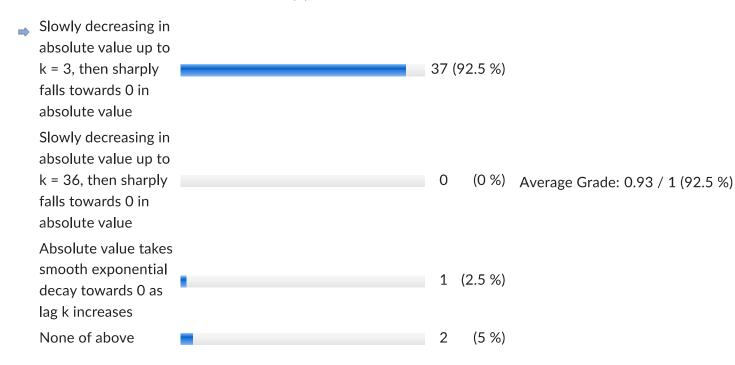




# 0 (0 %)

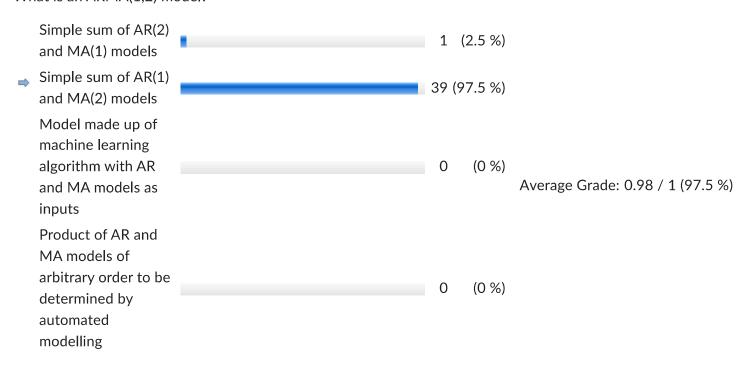
# Question 7

What is a characteristic of the PACF for AR(3)?



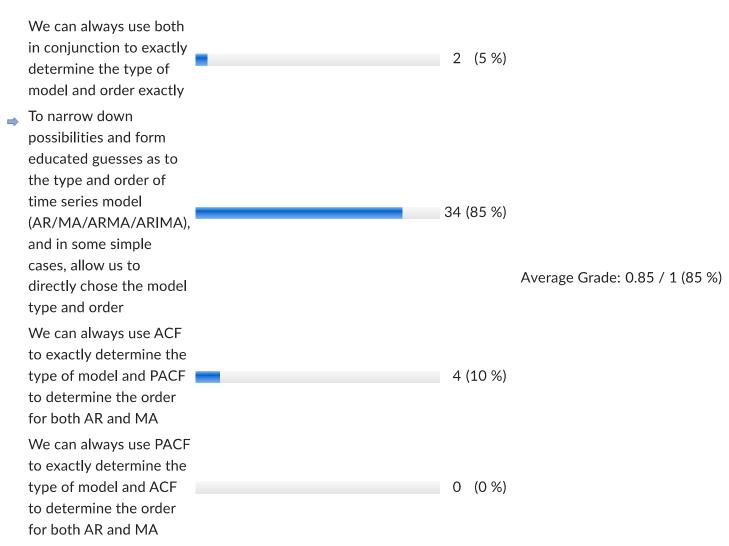
# **Question 8**

What is an ARMA(1,2) model?



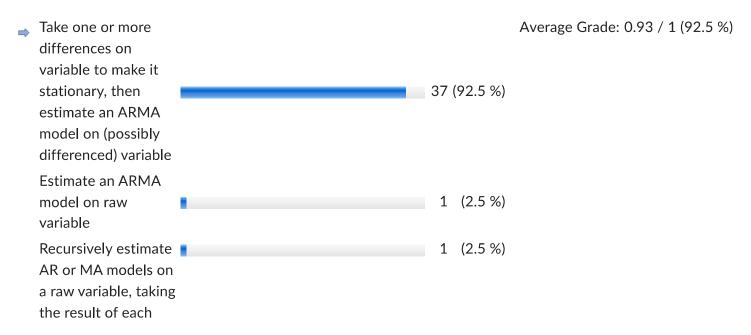
#### **Question 9**

What is the use of ACF and PACF for a time series?



## **Question 10**

What is the ARIMA model?

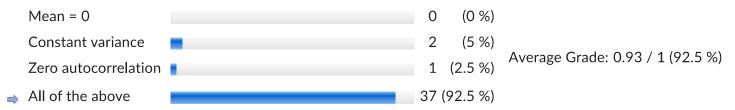


step as the input to
the next

None of above

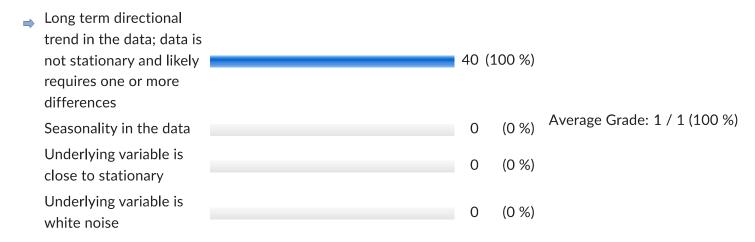
#### **Question 11**

Residuals in a time series estimation (AR, MA, ARMA, ARIMA) should have what properties?



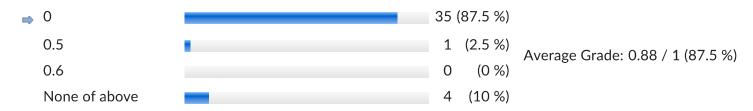
# **Question 12**

A very extremely slowly decaying ACF without any seasonal patterns is a clear and obvious indication of which of the following?



#### **Question 13**

An MA(1) process is Y(t) = 10 + 0.5e(t-1) + e(t). What is the autocorrelation between Y(t) and Y(t-10)?



## **Question 14**

An AR(1) process is Y(t) = 1 + 0.1Y(t-1) + e(t). What is the autocorrelation between Y(t) and Y(t-5)?



(1-0.1) to the power of 5 4 (10 %)
1 0 (0 %)