# View Report

# R1

(Number of First Attempts: 90)

MCQ

## Question 1

What is the purpose of Box-Cox transformation?

Ensures that 'range' or volatility of data is largely constant before modelling

Render the data stationary

Remove the impact of calendar effects

Remove the effect of inflation

83 (92.22 %)

6 (6.67 %)

Average Grade: 0.92 / 1 (92.22 %)

1 (1.11 %)

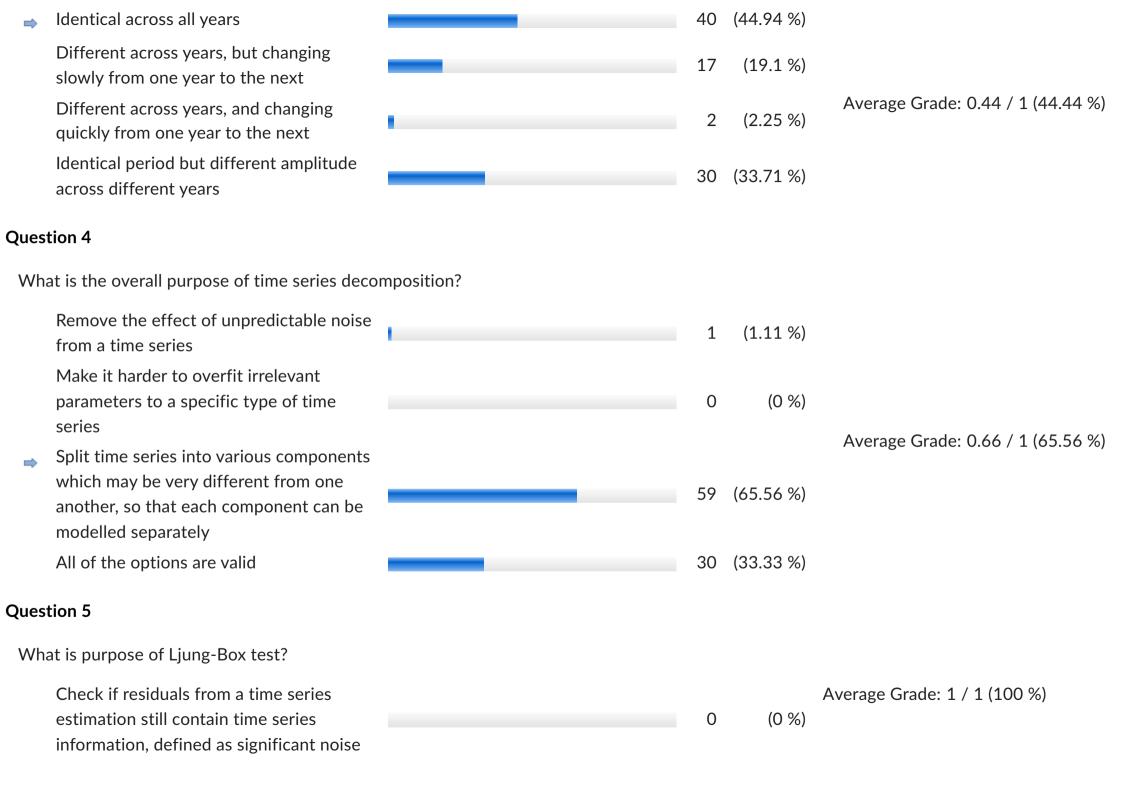
## Question 2

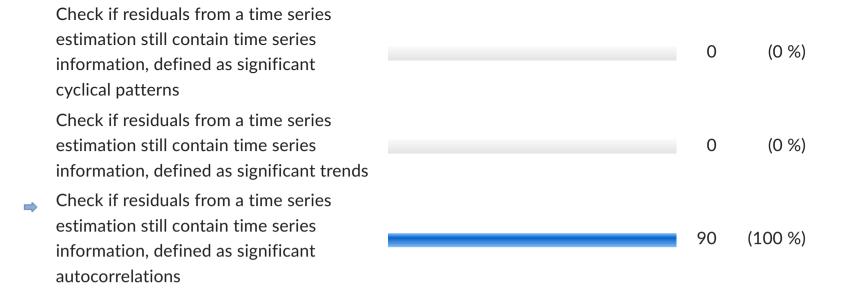
What are components of a time series that may be output from time series decomposition?



#### **Question 3**

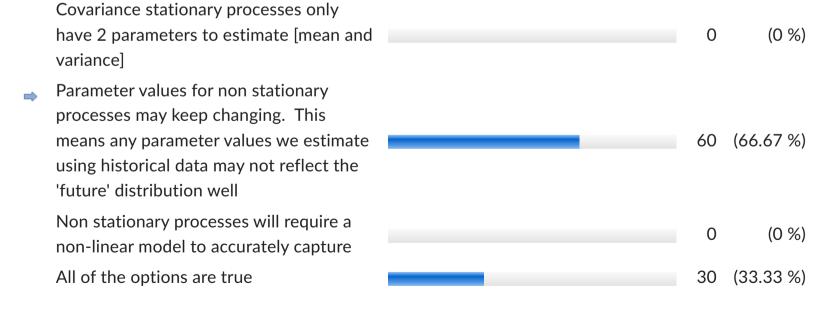
For the output of classical time series decomposition, is the component representing cyclical patterns with an annual period:





## Question 6

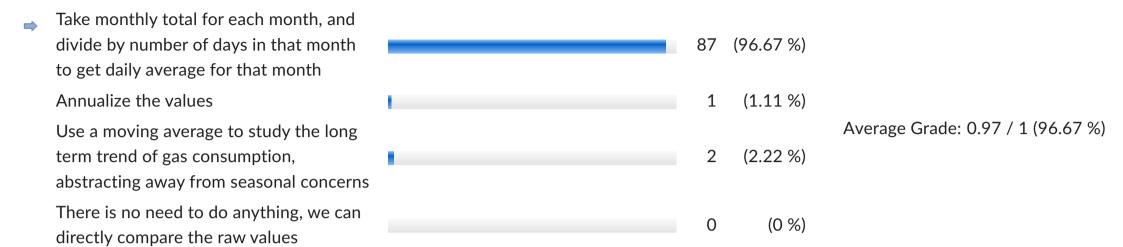
Why do we prefer to model covariance stationary processes versus non stationary processes?



Average Grade: 0.67 / 1 (66.67 %)

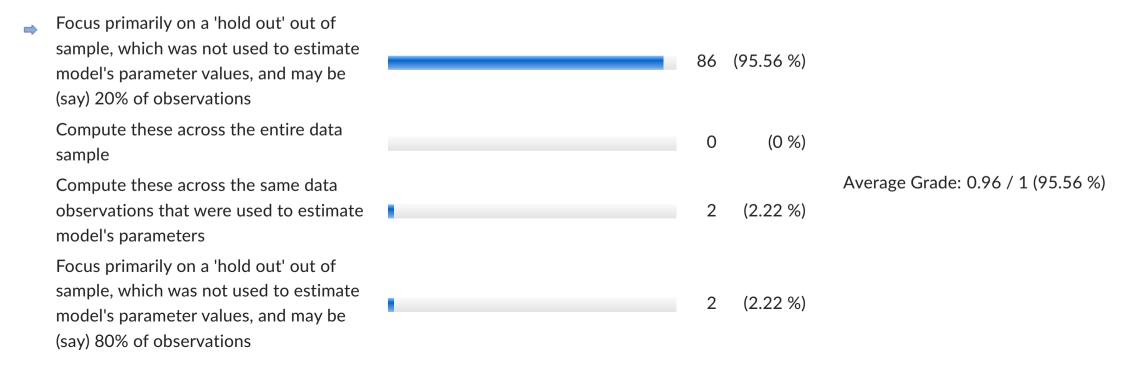
#### **Question 7**

We find that total monthly natural gas consumption is greater in months January, March, May, July, August, October and December compared to other months. How do we correct for any possible distortion introduced by the calendar before comparing values from one month to the next to identify any possible new demand factors for gas consumption?



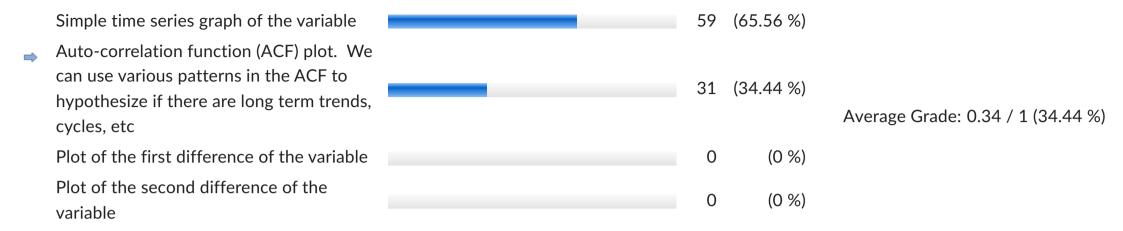
## **Question 8**

When we use goodness of fit criteria to evaluate a model [e.g. MAPE, RMSE, etc], how should we execute this?



## **Question 9**

What is the main way to visualize time series information in a variable?



#### **Question 10**

What is one way to convert a non stationary time series to stationary?



## **Question 11**

What is the correct order to apply seasonal and non seasonal differences?



