# View Report

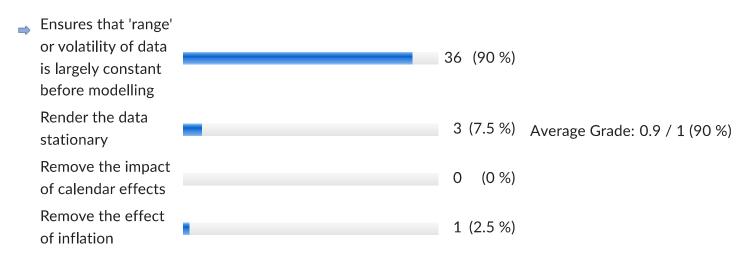
# **R1**

(Number of First Attempts: 40)

MCQ

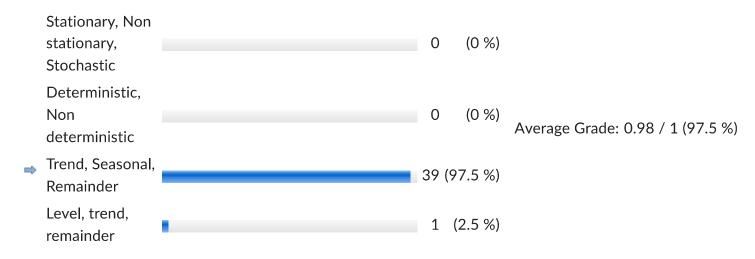
## **Question 1** Difficulty: 1

What is the purpose of Box-Cox transformation?



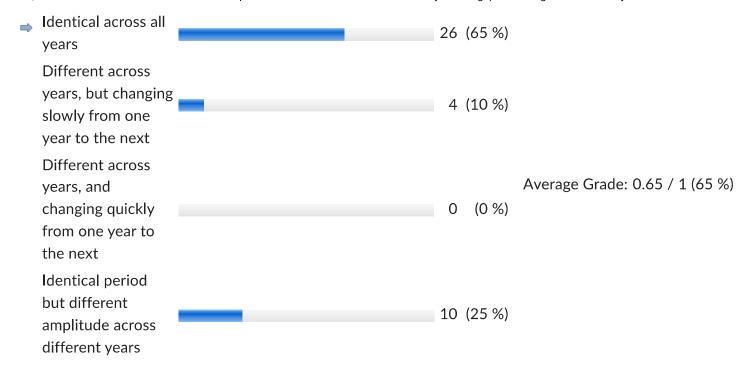
#### Question 2 Difficulty: 1

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



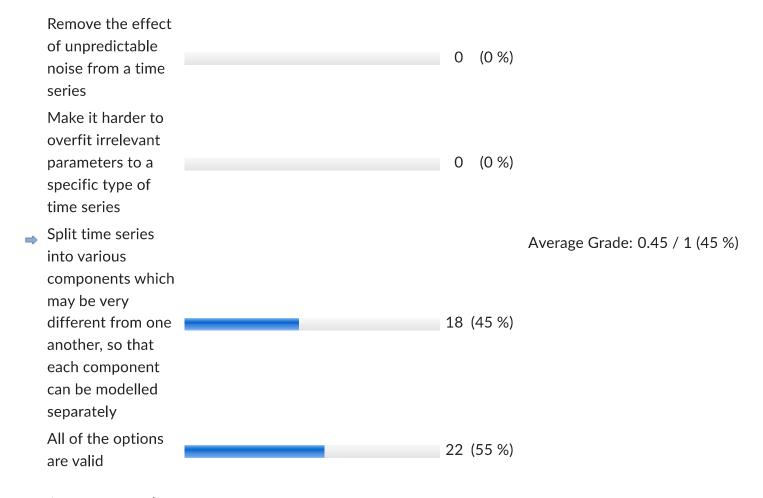
#### **Question 3** Difficulty: 1

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



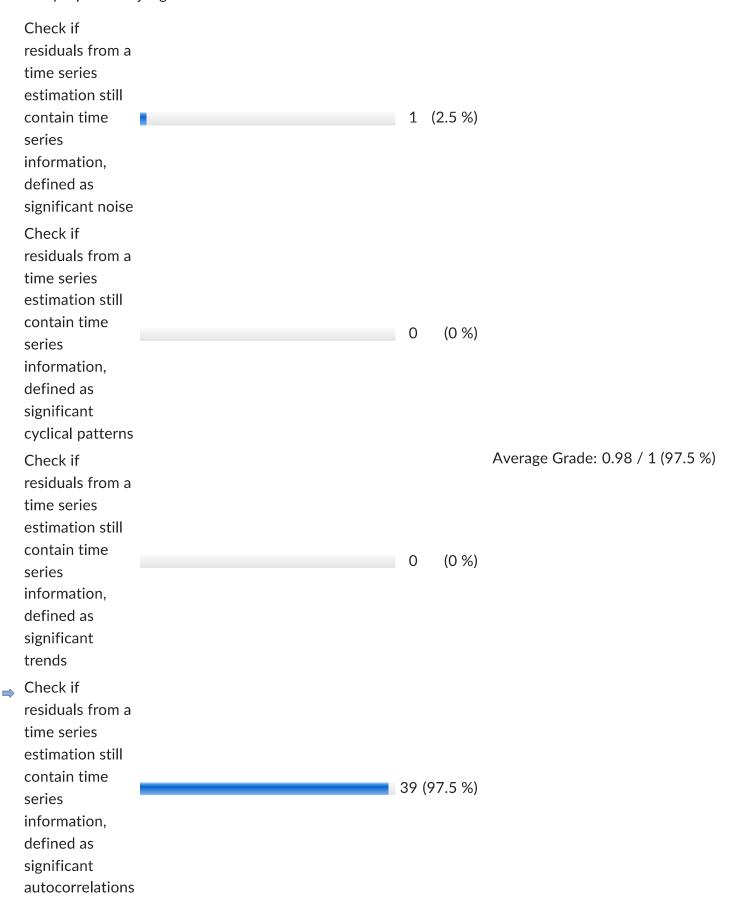
## Question 4 Difficulty: 1

What is the overall purpose of time series decomposition?



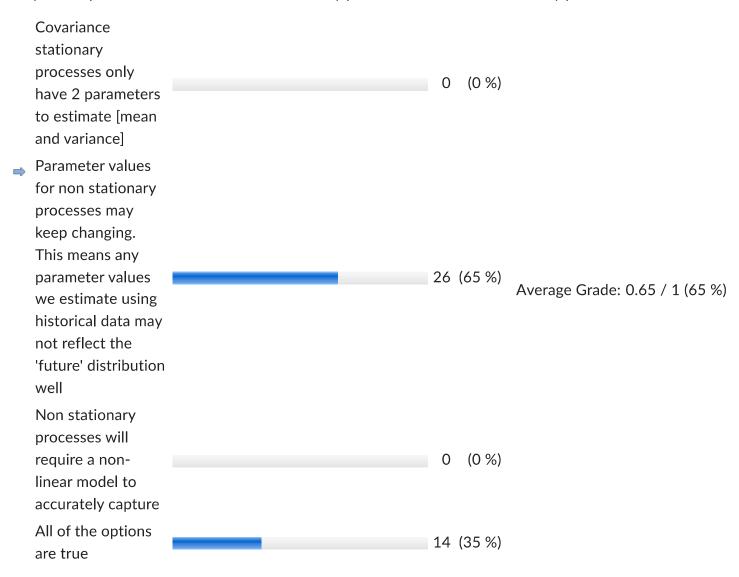
**Question 5** Difficulty: 1

What is purpose of Ljung-Box test?



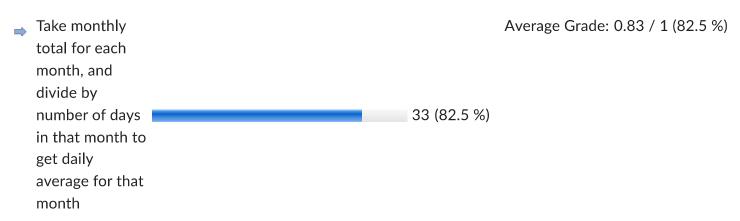
Question 6 Difficulty: 1

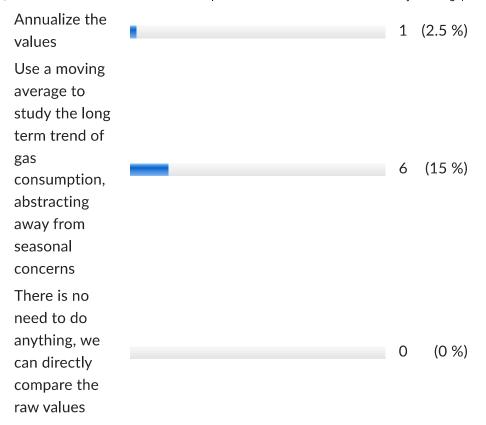
Why do we prefer to model covariance stationary processes versus non stationary processes?



#### **Question 7** Difficulty: 1

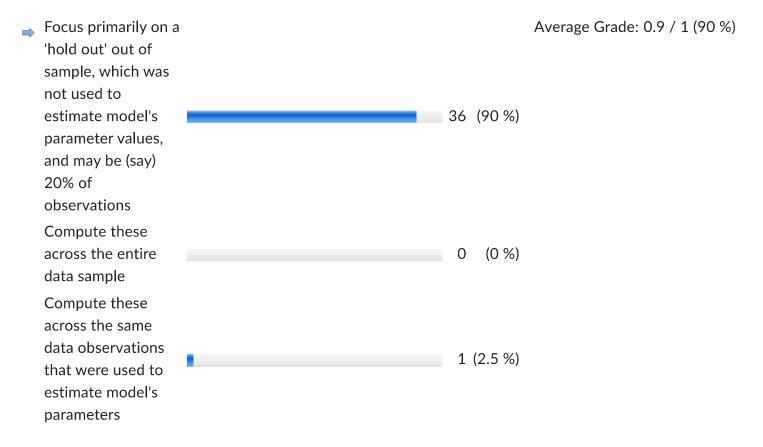
We find that total monthly natural gas consumption is greater in months January, March, May, July, August, October and December compared to other months. How do we correct for any possible distortion introduced by the calendar before comparing values from one month to the next to identify any possible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





### Question 8 Difficulty: 1

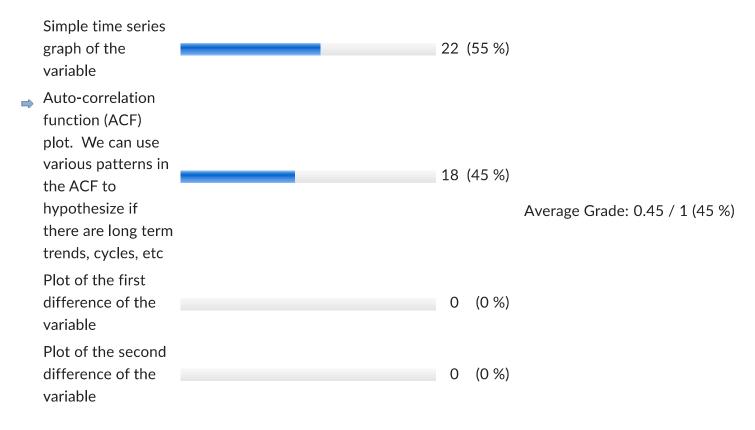
When we use goodness of fit criteria to evaluate a model [e.g. MAPE, RMSE, etc], how should we execute this?





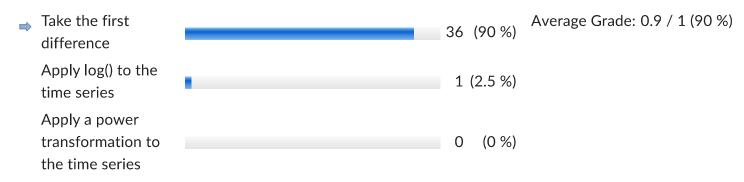
#### **Question 9** Difficulty: 1

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



#### Question 10 Difficulty: 1

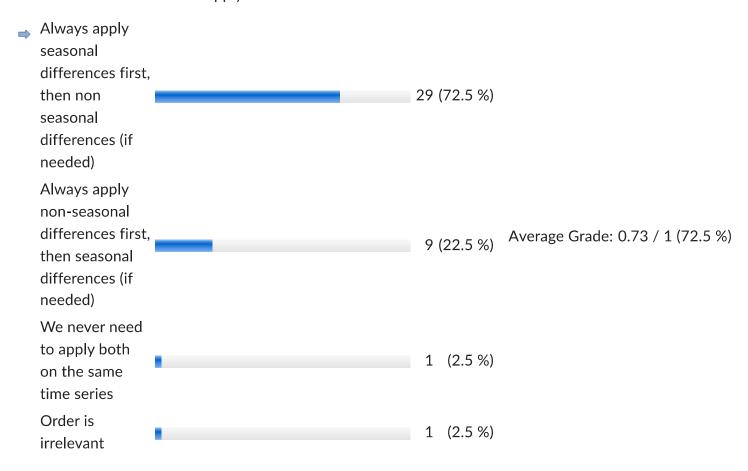
What is one way to convert a non stationary time series to stationary?





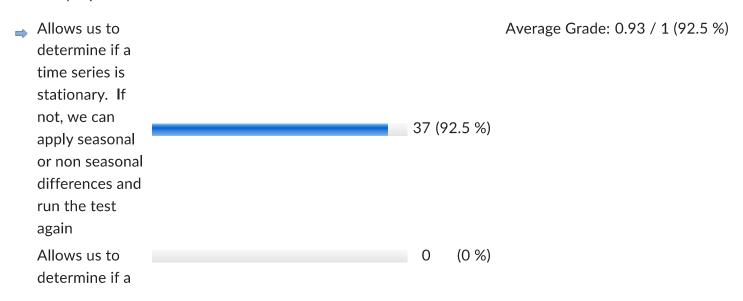
#### **Question 11** Difficulty: 1

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



## Question 12 Difficulty: 1

What is purpose of the KPSS test?



3 (7.5 %)

time series has a cyclical component. If so, we can apply seasonal or non seasonal differences and run the test again

Allows us to determine if a time series is integrated of

order 2 and above

Allows us to determine if a time series is stationary. If not, we cannot use time series analysis and should consider non linear methods such as machine

learning

0 (0%)