1. **What is an example of a Univariate time series?** `1 / 1 point`

⦿ **Hour by hour temperature**

◯ **Hour by hour weather**

◯ **Fashion items**

◯ **Baseball scores**

✓ Correct

2. **What is an example of a Multivariate time series?** `1 / 1 point`

◯ **Baseball scores**

◯ **Fashion items**

⦿ **Hour by hour weather**

◯ **Hour by hour temperature**

✓ Correct

3. **What is imputed data?**

1 / 1 point

○ Data that has been withheld for various reasons

○ A good prediction of future data

○ A bad prediction of future data

◉ A projection of unknown (usually past or missing) data

✓ Correct

4. **A sound wave is a good example of time series data**

1 / 1 point

◉ True

○ False

✓ Correct

5. **What is Seasonality?** 1 / 1 point

- ⦿ A regular change in shape of the data
- ○ Data aligning to the 4 seasons of the calendar
- ○ Data that is only available at certain times of the year

- ○ Weather data

✓ Correct

6. **What is a trend?** 1 / 1 point

- ○ An overall consistent downward direction for data

- ○ An overall consistent upward direction for data

- ○ An overall consistent flat direction for data

- ⦿ An overall direction for data regardless of direction

✓ Correct

7. **In the context of time series, what is noise?**

○ Data that doesn't have a trend

○ Data that doesn't have seasonality

○ Sound waves forming a time series

● Unpredictable changes in time series data

✓ Correct

8. **What is autocorrelation?**

○ Data that automatically lines up seasonally

○ Data that doesn't have noise

○ Data that automatically lines up in trends

● Data that follows a predictable shape, even if the scale is different

✓ Correct

9. **What is a non-stationary time series?**　　　　　　　　　　　　　　　　　　　

○ One that has a constructive event forming trend and seasonality

○ One that moves seasonally

○ One that is consistent across all seasons

⦿ One that has a disruptive event breaking trend and seasonality

✓ Correct