

✔ **Congratulations! You passed!**

Grade received **100%** To pass 80% or higher

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Week 1 Quiz

Latest Submission Grade 100%

1. What is an example of a Univariate time series?

1 / 1 point

- ☐ Fashion items
- ☒ Hour by hour temperature
- ☐ Hour by hour weather
- ☐ Baseball scores

✔ Correct

2. What is an example of a Multivariate time series?

1 / 1 point

- ☐ Hour by hour temperature
- ☐ Baseball scores
- ☒ Hour by hour weather
- ☐ Fashion items

✔ Correct

3. What is imputed data?

1 / 1 point

- ☐ A good prediction of future data
- ☒ A projection of unknown (usually past or missing) data
- ☐ A bad prediction of future data

☐ Data that has been withheld for various reasons

✓ 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

☐ Data aligning to the 4 seasons of the calendar

☐ Weather data

☒ A regular change in shape of the data

☐ Data that is only available at certain times of the year

✓ Correct

6. What is a trend?

1 / 1 point

☒ An overall direction for data regardless of direction

☐ An overall consistent upward direction for data

☐ An overall consistent flat direction for data

☐ An overall consistent downward direction for data

✓ Correct

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

1 / 1 point

- ☐ Sound waves forming a time series
- ☐ Data that doesn't have seasonality
- ☐ Data that doesn't have a trend
- ☒ Unpredictable changes in time series data

✓ Correct

8. What is autocorrelation?

1 / 1 point

- ☒ Data that follows a predictable shape, even if the scale is different
- ☐ Data that automatically lines up in trends
- ☐ Data that automatically lines up seasonally
- ☐ Data that doesn't have noise

✓ Correct

9. What is a non-stationary time series?

1 / 1 point

- ☒ One that has a disruptive event breaking trend and seasonality
- ☐ One that moves seasonally
- ☐ One that has a constructive event forming trend and seasonality
- ☐ One that is consistent across all seasons

✓ Correct