

## ✓ Congratulations! You passed!

Go to next item

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

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

1 / 1 point

☒ Hour by hour temperature

☐ Hour by hour weather

☐ Baseball scores

☐ Fashion items

✓ Correct

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

1 / 1 point

☐ Baseball scores

☐ Fashion items

☐ Hour by hour temperature

☒ Hour by hour weather

✓ Correct

3. What is imputed data?

1 / 1 point

☐ A good prediction of future data

☐ Data that has been withheld for various reasons

☐ 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

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

1 / 1 point

- ☐ False
- ☒ True

✓ Correct

5. What is Seasonality?

1 / 1 point

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

✓ 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 downward direction for data
- ☐ An overall consistent flat direction for data

✓ Correct

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

1 / 1 point

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

✓ Correct

8. What is autocorrelation?

1 / 1 point

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

✓ Correct

9. What is a non-stationary time series?

1 / 1 point

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

✓ Correct