



Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

GRADE
100%

Data Exploration

LATEST SUBMISSION GRADE

100%

1. Which of these statements is true about samples and variables?

1 / 1 point

- ☐ A sample can have many variables to describe it.
- ☐ A sample is an instance or example of an entity in your data.
- ☒ All of these statements are true.
- ☐ A variable describes a specific characteristic of an entity in your data.



Correct

That's correct!

2. Other names for 'variable' are

1 / 1 point

- ☐ categorical, nominal
- ☒ feature, column, attribute
- ☐ sample, row, observation
- ☐ numerical, quantitative



Correct

That's correct!

3. What is the purpose of exploring data?

1 / 1 point

- ☐ To generate labels for your data.
- ☐ To digitize your data.
- ☒ To gain a better understanding of your data.
- ☐ To gather your data into one repository.



Correct

That's correct!

4. What are the two main categories of techniques for exploring data? Choose two.

1 / 1 point

- ☐ Trends
- ☐ Histogram
- ☐ Outliers
- ☒ Visualization



Correct

That's correct!

- ☒ Summary statistics



Correct

That's correct!

- ☐ Correlations

5. Which of the following are NOT examples of summary statistics?

1 / 1 point

- ☐ skewness, kurtosis
- ☐ mean, median, mode

- ☒ data sources, data locations
- ☐ standard deviation, range, variation

✓ **Correct**
That's correct!

6. What are the two measures for measuring shape as mentioned in the lecture? Choose two.

1 / 1 point

- ☐ Mode
- ☒ Skewness

✓ **Correct**
That's correct!

- ☐ Contingency Table
- ☐ Range
- ☒ Kurtosis

✓ **Correct**
That's correct!

7. Which of the following would NOT be a good reason to use a box plot?

1 / 1 point

- ☐ To show data distribution shapes such as asymmetry and skewness.
- ☒ To show correlations between two variables.
- ☐ To show and compare distribution values

✓ **Correct**
That's correct! Correlations are best visualized with scatter plots instead of box plots. Please refer to [this video](#) for review.

8. All of the following are true about data visualization EXCEPT

1 / 1 point

- ☐ Provides an intuitive way to look at data.
- ☒ Is more important than summary statistics for data exploration
- ☐ Should be used with summary statistics for data exploration.
- ☐ Is useful for communicating results.

✓ **Correct**
That's correct! Data visualization and summary statistics should be used together to explore data. Please refer to [this video](#) for review.