

1. Which of the following is an example of time series data?

1 / 1 point

- ☒ Annual average housing price in New York
- ☐ Batting average of a baseball player
- ☐ Number of trees in Jardin du Luxembourg in Paris
- ☐ Number of dolphins in the Pacific Ocean

✓ Correct

A time series data is a sequence taken at successive equally spaced points in time.

2. What is the 75th percentile of the following data set;

1 / 1 point

1, 3, 3, 4, 5, 6, 6, 7, 8, 8

- ☐ 8
- ☐ 5.5
- ☒ 7
- ☐ 3

✓ Correct

Correct!

3. Which of the following is a measure of variability?

1 / 1 point

- ☐ Mean
- ☐ Median
- ☐ Mode
- ☒ Variance

✓ Correct

Correct!

4. Which of the following measures of central tendency will always change if a single value in the data changes?

1 / 1 point

- ☐ Median
- ☐ Mode
- ☐ All of the above
- ☒ Mean

✓ Correct

Correct!

5. Which of the following data sets has a mean of 10 and standard deviation of 0?

1 / 1 point

- ☐ 0, 0, 0
- ☐ 15, 15, 15
- ☐ 0, 10, 20
- ☒ 10, 10, 10

✓ Correct

Many data sets can have a mean of 10. However, if you force the standard deviation to be 0, you have only one choice: 10, 10, 10. A standard deviation of 0 means the average distance from the data values to the mean is 0. In other words, the data values don't deviate from the mean at all, and hence they have to be the same value.

6. What is meta data?

1 / 1 point

- ☐ Data about metal fatigue
- ☐ The metabolism data in a clinical trial
- ☒ It's the data about data
- ☐ The data about metamorphism

✓ **Correct**  
Correct!

7. Which of the following is an example of categorical data?

1 / 1 point

- ☐ Length of the river Nile
- ☐ Number of fire hydrants in a city
- ☒ Mode of travel to work
- ☐ Number of children at a kindergarten

✓ **Correct**  
Correct!

8. Median represents a value in the data set where:

1 / 1 point

- ☐ Half of the observations are known and the other half not known
- ☐ Most observations are negative
- ☒ Half of the observations are above the median and the other half below it
- ☐ Most observations are positive

✓ **Correct**  
Correct!

9. If the variance of a dataset is correctly computed with the formula using  $(n - 1)$  in the denominator, which of the following option is true?

0 / 1 point

- ☐ Data is from an unknown source
- ☐ Data is a population
- ☐ Data is a sample
- ☒ Data contains other variables with categorical data

✗ **Incorrect**  
Variance is calculated on continuous data

10. Which of the following is NOT a descriptive statistic?

1 / 1 point

- ☒ t-test
- ☐ Mean
- ☐ Median
- ☐ Standard Deviation

✓ **Correct**  
Correct!