

Quiz

Exploratory Data Analysis

1. What task does the method **value_counts** perform?

1 point

- ☐ Returns summary statistics
- ☒ Returns counts of unique values
- ☐ Returns the first five columns of a dataframe

2. What does the vertical axis in a scatter plot represent?

1 point

- ☐ Independent variable
- ☒ Dependent variable

3. What is the largest possible element resulting in the operation **df.corr()**?

1 point

- ☐ 100
- ☐ 1000
- ☒ 1

4. If the Pearson Correlation between two variables is zero, then ...

1 point

- ☐ The two variables have zero mean
- ☒ The two variables are not correlated

5. Consider the following dataframe:

1 point

```
1 df_test = df[['body-style', 'price']]
```

The following operation is applied:

```
1 df_grp = df_test.groupby(['body-style'], as_index=False).mean()
```

What are the resulting values of: **df_grp['price']**?

- ☒ The average price for each body style
- ☐ The average price
- ☐ The average body style

6. What is the minimum possible value of Pearson's Correlation?

1 point

- ☐ 1
- ☐ -100
- ☒ -1

7. What is the Pearson Correlation between variables X and Y, if $X=Y$?

1 point

- ☐ -1
- ☒ 1
- ☐ 0