

1.3.1 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:05pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following function/method shows the statistical summary of a dataframe?

- ☐ info()
- ☐ describe()
- ☐ head()
- ☐ shape

Question 2

1 pts

Select True or False for the following statement:

%matplotlib inline command keeps everything required to plot a graph in memory but does not display the graph in the notebook.

- ☐ True
- ☐ False

Quiz saved at 4:08pm

Submit Quiz

1.3.10 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which among the following statements is true?

- ☐ Violin plot is a combination of histogram and box plot
- ☐ Violin plot is a combination of density plot and box plot
- ☐ Violin plot is a combination of the histogram and scatter plot
- ☐ None of the above

Question 2

1 pts

Which of the following statement(s) is correct?

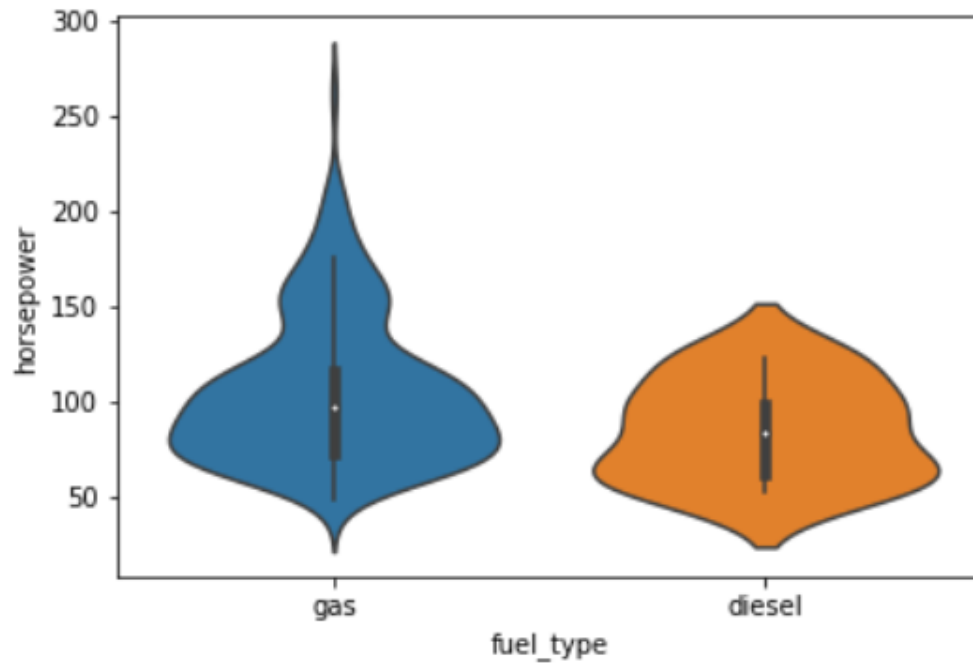
- A. Violin plots are used to visualize the distribution of numeric variables for several groups.
- B. The thickness and tails of each group's density curve can be compared to see where groups are similar or different.

- ☐ Only A
- ☐ Only B
- ☐ Neither A nor B
- ☐ Both A & B

Question 3

1 pts

Following is a violin plot between fuel_type (gas and diesel) and horsepower.



Based on the above graph, Select True/False for the following statement:

The distribution of horsepower for 'gas' type is more skewed than distribution of horsepower for 'diesel' type.

- ☐ True
- ☐ False

Quiz saved at 4:10pm

Submit Quiz

1.3.11 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following statement(s) is correct?

A. Strip plot is similar to a scatter plot which differentiates different categories

B. Strip plot is a combination of 2 kinds of plots

☐ Only A

☐ Only B

☐ Neither A nor B

☐ Both A & B

Question 2

1 pts

Select True/False for the following statement:

Seaborn's stripplot() by default apply jitter to the values to avoid overlapping.

☐ True

☐ False

Quiz saved at 4:10pm

Submit Quiz

1.3.12 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

To avoid overlapping of the categorical data, which among the following parameter can be used in seaborn's swarmplot function?

- ☐ hue
- ☐ jitter
- ☐ dodge
- ☐ None of the above

Question 2

1 pts

Select True/False for the following statement:

In the swarm plots, dots are arranged in a way to give a better distribution of the data compared to strip plots.

- ☐ True
- ☐ False

Quiz saved at 4:11pm

Submit Quiz

1.3.13 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

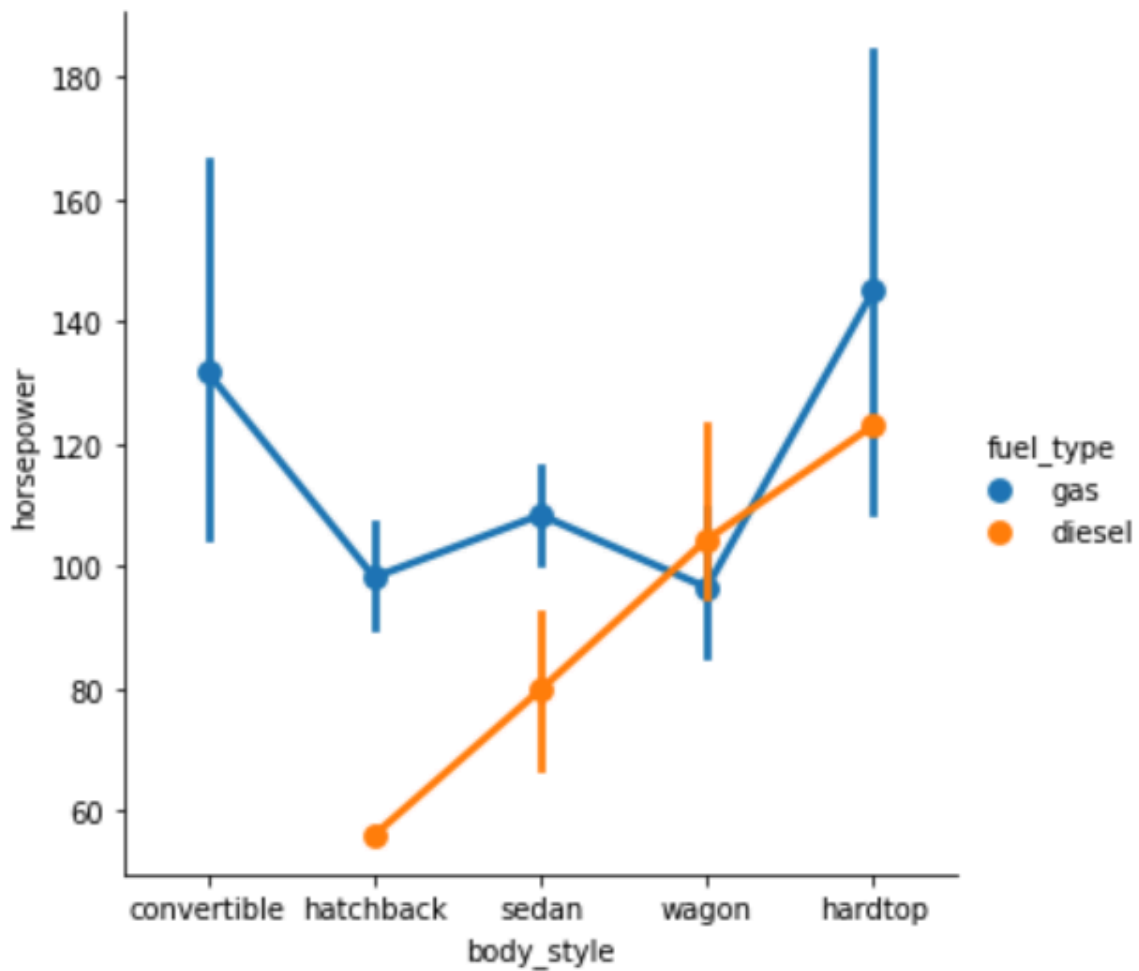
Which of the following attribute is used to plot a bar graph with help of catplot?

- ☐ kind = 'count'
- ☐ pallete = 'bar'
- ☐ kind = 'bar'
- ☐ None of the above

Question 2

1 pts

The plot below shows the horsepower of cars of various body styles for both the fuel types gas and diesel.



What is the approximate range of 95% confidence interval for horsepower for sedan cars running on gas?

- ☐ (62, 95)
- ☐ (100, 120)
- ☐ (100, 170)
- ☐ (50, 80)

Question 3

1 pts

Select True/False for the following statement:

Seaborn's `catplot()` function can plot a histogram.

- ☐ True
- ☐ False

Question 4

1 pts

Which of the following statements is correct about Seaborn's `catplot()` function?

A. The function can only plot strip and bar plots.

B. By default, the function creates a strip plot.

☐ Only A

☐ Only B

☐ Neither A nor B

☐ Both A & B

Quiz saved at 4:11pm

Submit Quiz

1.3.14 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following statement(s) is correct?

A. Pairplots can be used on categorical variables.

B. Pairplots can be used on numerical variables.

- ☐ Only A
- ☐ Only B
- ☐ Neither A nor B
- ☐ Both A & B

Question 2

1 pts

Which among the following parameters is used to specify the variables to be plotted with pairplot?

- ☐ variables
- ☐ var
- ☐ vars
- ☐ list

Question 3

1 pts

Select True/False for the following statement:

We can prevent the plotting of graphs above the diagonal by setting corner = False.

- ☐ True
- ☐ False

Quiz saved at 4:11pm

Submit Quiz

1.3.15 Test Your Understanding

▲ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following statement(s) is correct?

A. A heatmap can be used to visualize a correlation matrix.

B. Apart from correlation, heatmap also helps us study the distribution of numeric variables.

- ☐ Only A
- ☐ Only B
- ☐ Neither A nor B
- ☐ Both A & B

Question 2

1 pts

Study the heatmap below and select the pair of variables that are most negatively correlated:



- ☐ Reviews and Listing_Price
- ☐ Reviews and Discount
- ☐ Discount and Sale_Price

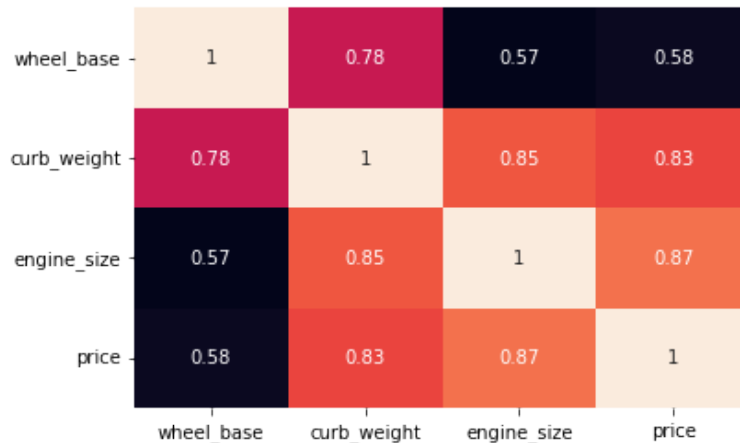
- ☐ Listing_Price and Rating

Question 3**1 pts**

Consider the following code:

```
import seaborn as sns
sns.heatmap(df.corr(), #missing parameter,# missing parameter )
```

Which of the following options will correctly fill the code to generate the following heatmap?



- ☐ annot = False, cmap = True
- ☐ annot = True, cbar = True
- ☐ annot = True, cbar = False
- ☐ annot = True, cmap = False

Question 4**1 pts**

The color palette of heatmaps are set with help of which parameter?

- ☐ cbar
- ☐ cmap
- ☐ palette
- ☐ colormap

1.3.16 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

When we click and drag a selection on a plotly graph, what does it do?

- ☐ Captures image of the selection
- ☐ Plots the graph in a new cell
- ☐ Zooms into the selected region
- ☐ Zooms out and fits the whole graph in the selected region

Question 2

1 pts

Which of the following code saves the plot in an HTML file?

- ☐ `plot_name.save_html('filename.html')`
- ☐ `plot_name.as_html('filename.html')`
- ☐ `plot_name.write_html('filename.html')`
- ☐ `plot_name.load_html('filename.html')`

Question 3

1 pts

Select True/False for the following statement:

Plotly allows us to create dynamic 3D graphs which can be rotated and viewed.

- ☐ True
- ☐ False

Quiz saved at 4:11pm

Submit Quiz

1.3.17 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which function is used to specify the starting and ending points for y-axis?

- ☐ plt.yrange(start, end)
- ☐ plt.y_range(start, end)
- ☐ plt.ylim(start, end)
- ☐ plt.ylable(start, end)

Question 2

1 pts

Which attribute is used to set the position of the legend table?

- ☐ pos
- ☐ location
- ☐ loc
- ☐ legend_loc

Quiz saved at 4:11pm

Submit Quiz

1.3.2 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:05pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

For which of the following variables, histplot() is inappropriate to visualize the distribution?

- ☐ The weight of Newborn babies (in kg.): 2.79, 2.56, 3.64, 3.01
- ☐ Students' Age: 21, 15, 7, 19
- ☐ Household Income: \$3000, \$15000, \$30000, \$500000
- ☐ Education Level: School SAT, High School, B.S, M.S, PhD

Question 2

1 pts

Select True or False for the following statement:

Increasing the number of bins increases the width of bars in the histogram.

- ☐ True
- ☐ False

Question 3

1 pts

Which of the following statements about Histogram is False?

- ☐ We divide the numerical data into bins and plot a frequency distribution in the form of a histogram
- ☐ The frequency in each bin is represented by the length of the bar
- ☐ We can provide the number of bars needed to create a histogram
- ☐ None of the above

Question 4**1 pts**

Select True/False for the following statement:

Histograms can be used to examine the distribution of numeric variables.

☐ True

☐ False

Quiz saved at 4:08pm

Submit Quiz

1.3.3 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:05pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Select True/False for the following statement:

KDE stands for Kernel Density Estimation

☐ True

☐ False

Question 2

1 pts

Which parameter of the `histplot()` function can be used to create separate histograms for different categories groups and display them by stacking into one histogram?

☐ kde

☐ fill

☐ hue

☐ None of the above

Question 3

1 pts

Select True/False for the following statement:

Stacked histogram for multiple categories is always a good option to gain insights from the plot.

☐ True

☐ False

No new data to save. Last checked at 4:08pm

Submit Quiz

1.3.4 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:05pm

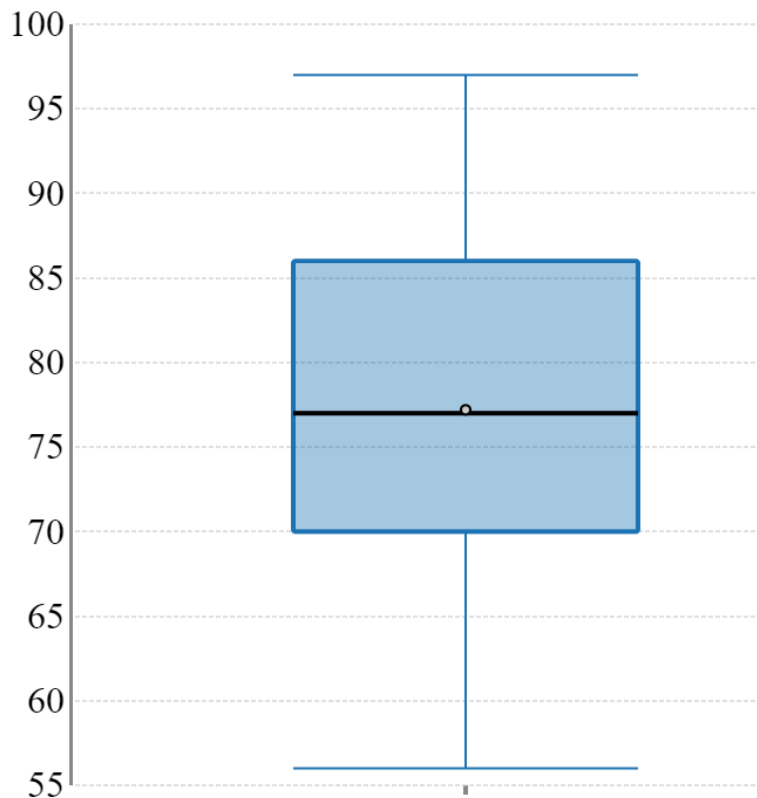
Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following is the most suitable option for median, first quartile and third quartile for the boxplot below?



- ☐ 81 , 58 and 96 respectively
- ☐ 77, 56 and 97 respectively
- ☐ 77, 70 and 86 respectively
- ☐ 70, 56 and 77 respectively

Question 2

1 pts

Which of the following statements is correct for boxplot?

Hint: Q1 is the 1st Quartile, and Q3 is the 3rd Quartile

- ☐ 25% data is between the Q1 and Q3
- ☐ 25% data is to the left of Q1
- ☐ 50% data is to the right of Q3
- ☐ 50% of the data is between the minimum value and Q1

Question 3**1 pts**

Which of the following statement(s) is correct?

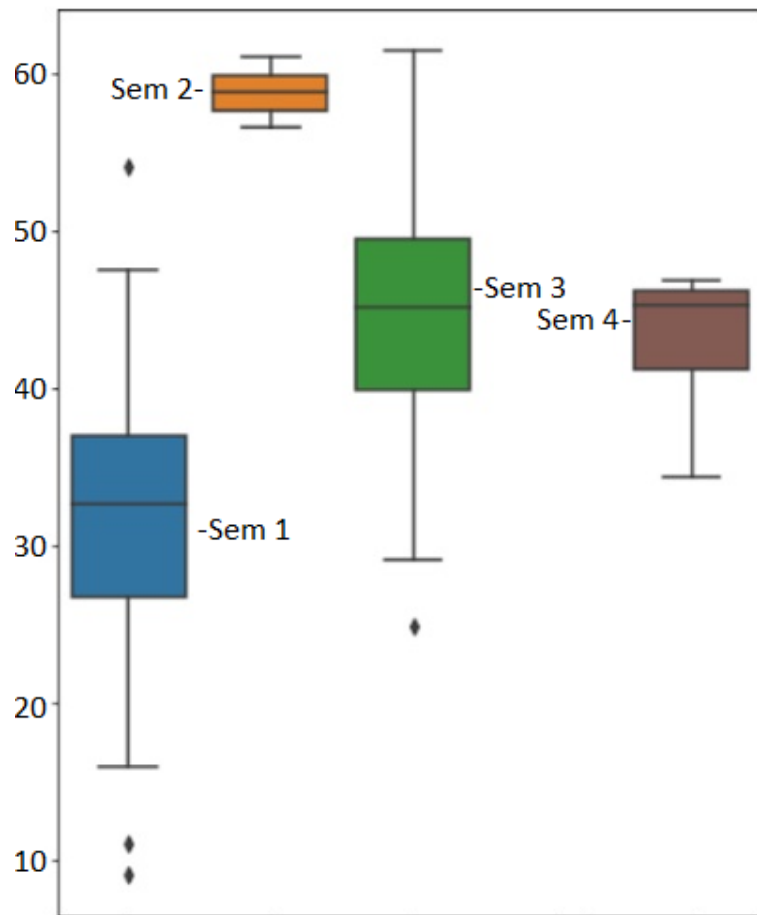
A. Right skewed box plot has longer left whiskers and shorter right whiskers.

B. Left skewed box plot has longer right whiskers and shorter left whiskers.

- ☐ Only A
- ☐ Only B
- ☐ Neither A nor B
- ☐ Both A & B

Question 4**1 pts**

The following plot shows the marks scored by students of a university in 4 different semesters.



Which of the following observations is true based on the plot above?

- ☐ For Sem 2, more than 75% of students have scored more than 60
- ☐ For Sem 3, only 50% of data lies between 50 and 60
- ☐ There are multiple outliers in Sem 4
- ☐ For Sem 1, more than 75% of the students scored below 40

Question 5

1 pts

Select True/False for the following statement:

Outliers are points that are less than $Q1 - IQR/2$ and greater than $Q3 + IQR/2$ respectively.

- ☐ True
- ☐ False

Quiz saved at 4:08pm

Submit Quiz

1.3.5 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:05pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following can be used to see the number of values in each level/category of a categorical variable?

- ☐ `sns.boxplot()`
- ☐ `sns.countplot()`
- ☐ `sns.histplot()`
- ☐ None of the Above

Question 2

1 pts

Choose the appropriate code for changing the size of the plot.

- ☐ `plt.size((15, 20))`
- ☐ `plt.figure(size(15, 20))`
- ☐ `plt.figure(figsize=(15, 20))`
- ☐ `plt.figure(figsize(15, 20))`

Question 3

1 pts

Which of the following statement(s) is correct?

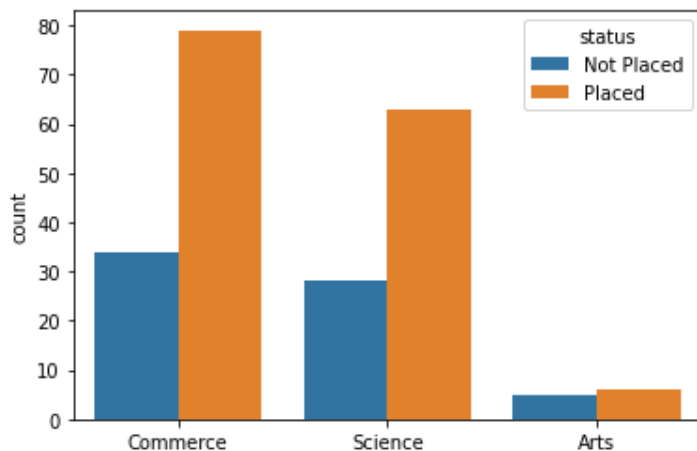
- A. `countplot()` method is used to show the counts of observations in each categorical bin using bars.
- B. `countplot()` is generally used to visualize the distribution of a numerical variable.

- ☐ Only A
- ☐ Only B
- ☐ Neither A nor B

☐ Both A & B

Question 4**1 pts**

The plot below shows the placement status for students across different disciplines.



Which of the following statements are true based on the above plot?

- A. The number of placed students in Science is greater than the number of students placed in Arts.
- B. Highest number of students are present in Commerce.

☐ Only A

☐ Only B

☐ Both A & B

☐ Neither A nor B

Question 5**1 pts**

Select True/False for the following statement:

We can change the number of bins in the bar chart just like histogram.

☐ True

☐ False

Quiz saved at 4:08pm

Submit Quiz

1.3.6 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:05pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following statements are true?

A. Line chart is generally used to visualize information that changes over time.

B. Line chart is generally used to detect outliers in the data.

☐ Only A

☐ Only B

☐ Neither A nor B

☐ Both A & B

Question 2

1 pts

Which of the following statement(s) is correct?

A. Line plot connects data points through a straight line.

B. Line plot can be used to analyze trends and seasonality.

☐ Only A

☐ Only B

☐ Neither A nor B

☐ Both A & B

Question 3

1 pts

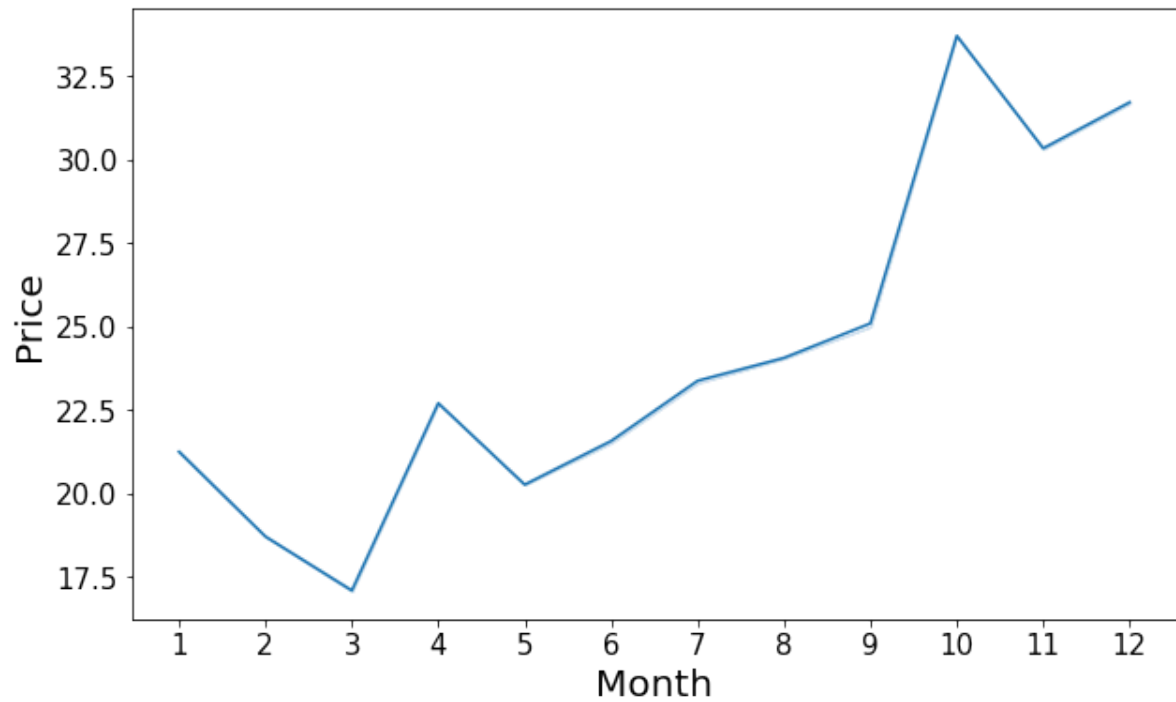
Select True/False for the following statement:

The shaded area in the seaborn's lineplot() function depicts the confidence interval.

☐ True

☐ False**Question 4****1 pts**

The plot below shows the trend of stock prices of a company during the year 2021.



Select True/False for the following statement:

Based on the plot above, we can say that the stock price witnessed an increase from September to October.

☐ True☐ False

Quiz saved at 4:08pm

Submit Quiz

1.3.7 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:08pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following statement(s) is correct?

- A. Scatter plot helps to study the relationship between two variables.
- B. Scatter plot helps to understand the distribution of individual variable.

- ☐ Only A
- ☐ Only B
- ☐ Neither A nor B
- ☐ Both A & B

Question 2

1 pts

Which of the following statement(s) is correct?

- A. Correlation can be defined as a measure of association between two variables.
- B. A positive correlation is when both variables do not increase or decrease together.

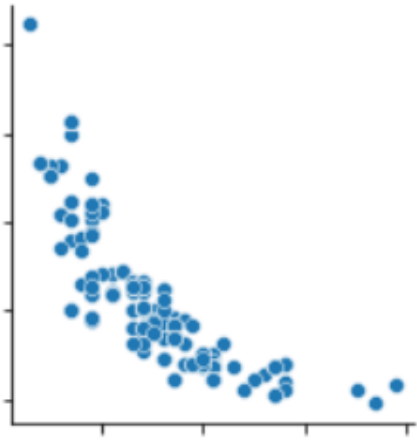
- ☐ Only A
- ☐ Only B
- ☐ Neither A nor B
- ☐ Both A & B

Question 3

1 pts

Select True/False for the following statement:

Following chart shows a negative correlation.



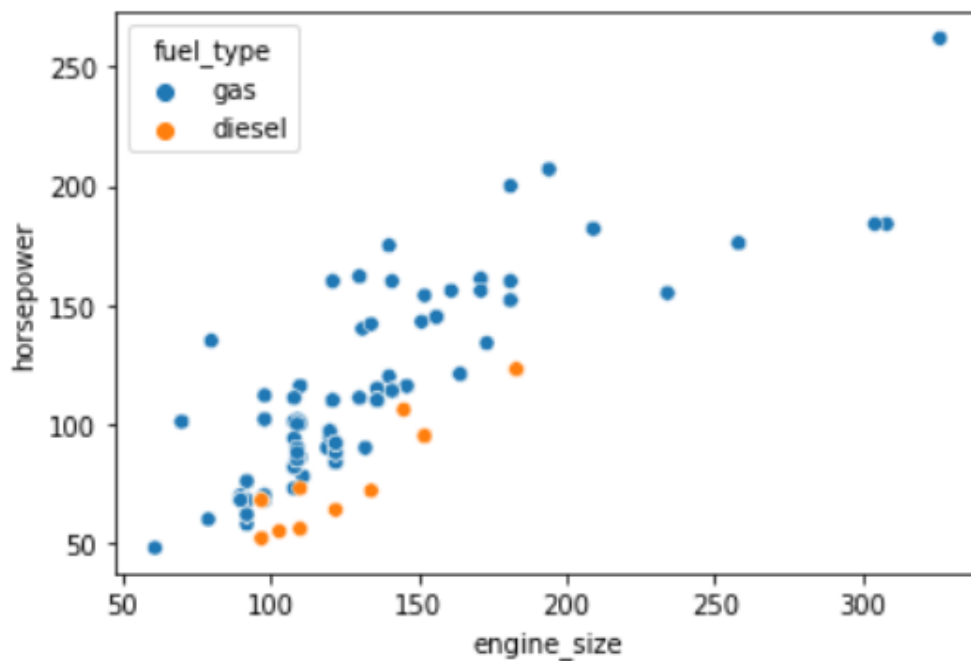
☐ True

☐ False

Question 4

1 pts

Following is a scatter plot between engine size and horsepower for both the fuel type: gas and diesel.



Select True/False for the following statement:

Based on the above graph, cars running on diesel generally have a lower horsepower than cars running on gas.

☐ True

☐ False

Quiz saved at 4:09pm

Submit Quiz

1.3.8 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Which of the following statement(s) is correct about the seaborn's Implot function?

A. Lmplot stands for Linear Model plot.

B. It shows the best-fit line along with data points plotted in 2D space.

- ☐ Only A
- ☐ Only B
- ☐ Neither A nor B
- ☐ Both A & B

Question 2

1 pts

What does the shaded region along the line in Implot represent?

- ☐ Confidence interval
- ☐ Collinearity of the variables
- ☐ Missing data
- ☐ Interquartile range

Question 3

1 pts

What is the default value of the confidence interval for seaborn's Implot function?

- ☐ 90%
- ☐ 95%
- ☐ 99%

☐ 60%**Question 4****1 pts**

Select True/False for the following statement:

The hue parameter of seaborn's Implot() function can be used for comparing data across different levels of a categorical variable, but the col parameter cannot be used for the same.

☐ True☐ False

Quiz saved at 4:09pm

[Submit Quiz](#)

1.3.9 Test Your Understanding

⚠ This is a preview of the published version of the quiz

Started: Jun 2 at 4:09pm

Quiz Instructions

This is a non-graded quiz to test your understanding of the last video you watched.

Question 1

1 pts

Joint plot is a combination of which of the following plots?

- ☐ Barplot and scatterplot
- ☐ Scatterplot and histogram
- ☐ Barplot and histogram
- ☐ Boxplot and histogram

Question 2

1 pts

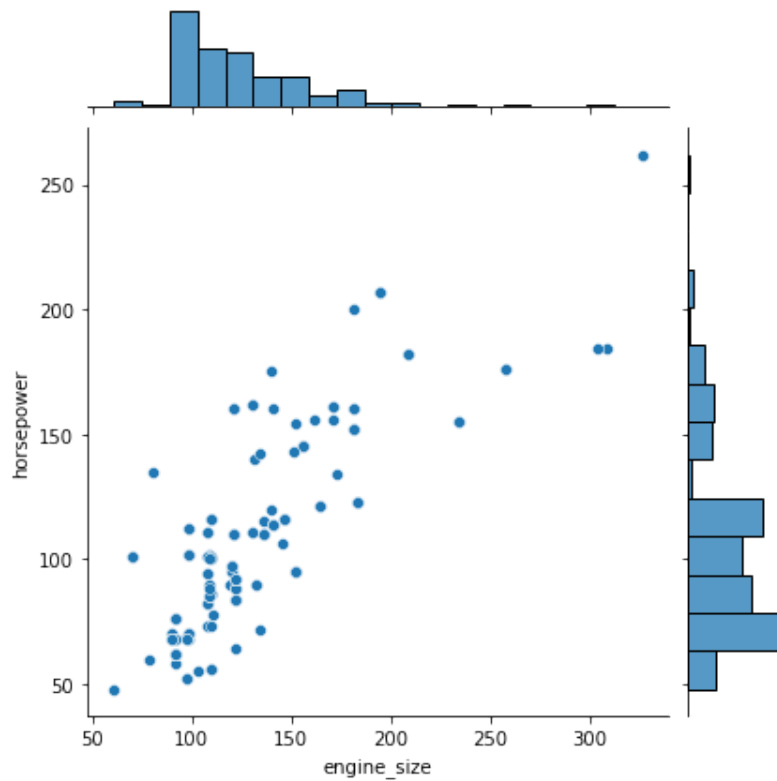
Select the correct attribute value that gives best fit line in the jointplot.

- ☐ kind = 'reg'
- ☐ kind = 'kde'
- ☐ kind = 'hex'
- ☐ kind = 'hist'

Question 3

1 pts

Following is a joint plot between engine size and horsepower.



Select the correct statement based on the graph above.

- ☐ engine_size has a left-skewed distribution
- ☐ horsepower and engine_size are negatively correlated
- ☐ horsepower and engine_size are positively correlated
- ☐ Both horsepower and engine_size are normally distributed

Question 4

1 pts

Select True/False for the following statement:

We can find univariate as well joint distribution information from the joint plot.

- ☐ True
- ☐ False

No new data to save. Last checked at 4:09pm

Submit Quiz