Specialized Visualization Tools

LATEST SUBMISSION GRADE

100%

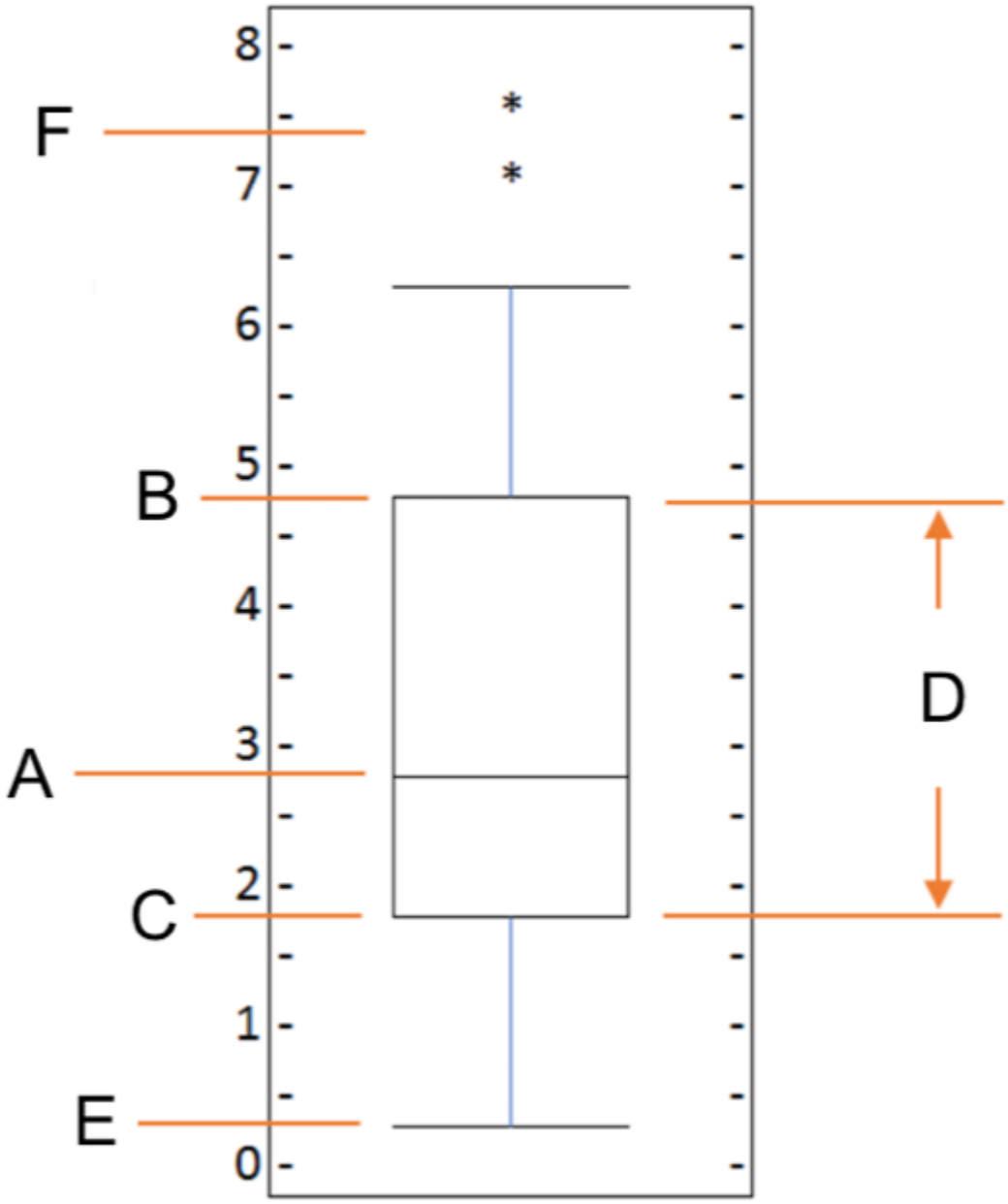
1. Bar charts are less confusing than pie charts and should be your first attempt when creating a visual to explore a dataset. **1 / 1 point**

- (●) True.
- ( ) False.

✓ **Correct**

Correct.

2. **1 / 1 point**



What do the letters in the box plot above represent?

- (●) A = Median, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- ( ) A = Median, B = Third Quartile, C = Mean, D = Inter Quartile Range, E = Lower Quartile, and F = Outliers
- ( ) A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers

- A = Mean, B = Upper Mean Quartile, C = Lower Mean Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Maximum

✓ **Correct**

Correct.

3. What is the correct combination of function and parameter to create a box plot in Matplotlib? **1 / 1 point**

- (●) Function = plot, and Parameter = kind with value = "box"
- Function = plot, and Parameter = kind with value = "boxplot"
- Function = box, and Parameter = type with value = "plot"
- Function = boxplot, and Parameter = type with value = "plot"
- Function = plot, and Parameter = type with value = "box"

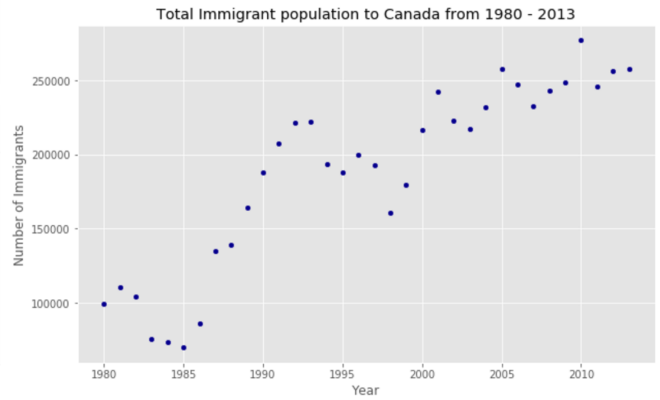
✓ **Correct**

Correct.

4. Which of the lines of code below will create the following scatter plot, given the *pandas*dataframe, df_total? **1 / 1 point**

df_total

year	total
1980	99137
1981	110563
1982	104271
1983	75550
1984	73417
. .	. .
2013	258654



```
import matplotlib.pyplot as plt

df_total.plot(kind='scatter', x='year', y='total')

plt.title('Total Immigrant population to Canada from 1980 - 2013')
plt.xlabel ('Year')
plt.ylabel('Number of Immigrants')
```

```
import matplotlib.scripting.pyplot as plt

df_total.plot(type='scatter', y='year', x='total')

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df_total.plot(kind='scatter', x='year', y='total')

plt.title('Total Immigrant population to Canada from 1980 - 2013')
plt.label('Year')
plt.label('Number of Immigrants')
```

```
import matplotlib.pyplot as plt

plot(kind='scatter', x='year', y='total', data=df_total)

plt.title('Total Immigrant population to Canada from 1980 - 2013')
plt.label ('Year')
plt.label('Number of Immigrants')
```

```
import matplotlib.pyplot as plt

df_total.plot(type='scatter', x='year', y='total')

plt.title('Total Immigrant population to Canada from 1980 - 2013')
plt.label ('Year')
plt.label('Number of Immigrants')
```

Correct

Correct.

5. A bubble plot is a variation of the scatter plot that displays three dimensions of data.

- True.
- False

Correct

Correct.