Module 1 Quiz

TOTAL POINTS 12

1. Use the importFlightsData function to import the data for January 2015. Answer questions 1-4 using this data. **1 point**

   Which origin airport had the greatest number of scheduled flights? Provide your answer using the corresponding 3-letter origin airport code.

   > ATL

2. From which airport do departing flights fly the shortest average distance? **1 point**

   > WRG

3. What was the total number of flights cancelled in January of 2015? **1 point**
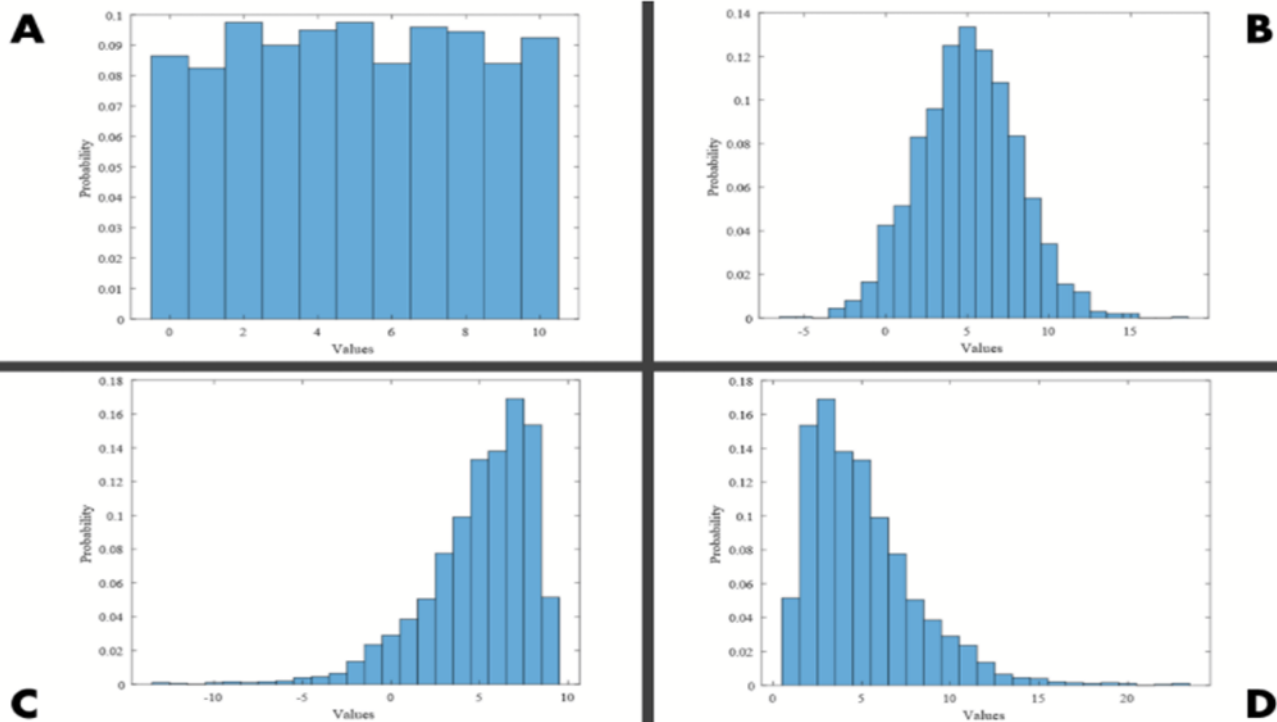
   > 11982

4. What type of distribution do you see when creating a histogram of the TAXI_OUT variable in the flights dataset? **1 point**

   - ⦿ Skewed
   - ○ Uniform
   - ○ Normal

5. Use the following image to answer questions 5 - 7. Enter the letter for the image that answers the question. **1 point**

   Which plot has negative skewness?

   > C

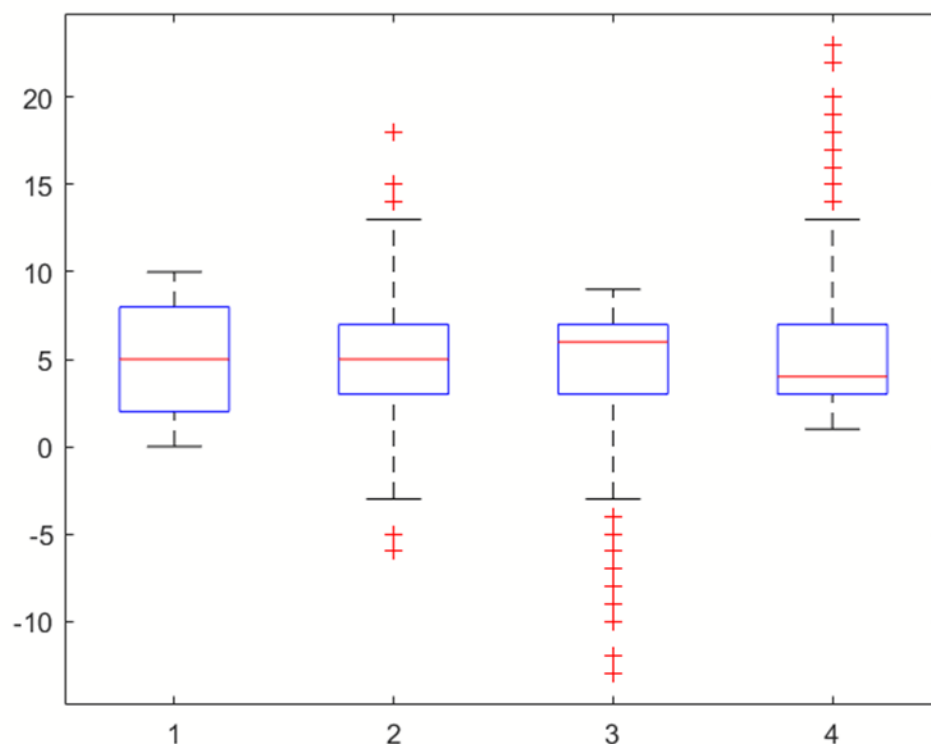6. Which distribution displays an equal probability for all possible values?

1 point

> A

7. Which distribution above has a kurtosis value of 3? Refer back to Examples of Distributions video if necessary.

1 point

> B

8. The box plots below show four different distributions. From left to right, which option below lists the distributions shown?

1 point

- ○ Normal, Uniform, Left Skewed, Right Skewed
- ○ Uniform, Right Skewed, Left Skewed, Right Skewed
- ○ Uniform, Normal, Right Skewed, Left Skewed
- ● Uniform, Normal, Left Skewed, Right Skewed

9. In the box plot above, the red line inside the box represents what?

- ⦿ median
- ◯ skewness
- ◯ mode
- ◯ mean

10. In the box plot above, the red +'s are classified as what?

- ◯ Whiskers
- ◯ Different groups within the distribution
- ◯ Values with the largest number of observations
- ⦿ Outliers

11. Which plot type should be used to visualize the center of a distribution using the interquartile range?

- ◯ matrix of scatter plots by group
- ◯ histogram
- ◯ parallel plot
- ◯ scatter histogram
- ⦿ box plot

12. Which visualization function allows you to view each combination of numeric variables in your dataset at once?

- ⦿ gplotmatrix
- ◯ scatter
- ◯ histogram2
- ◯ scatterhistogram