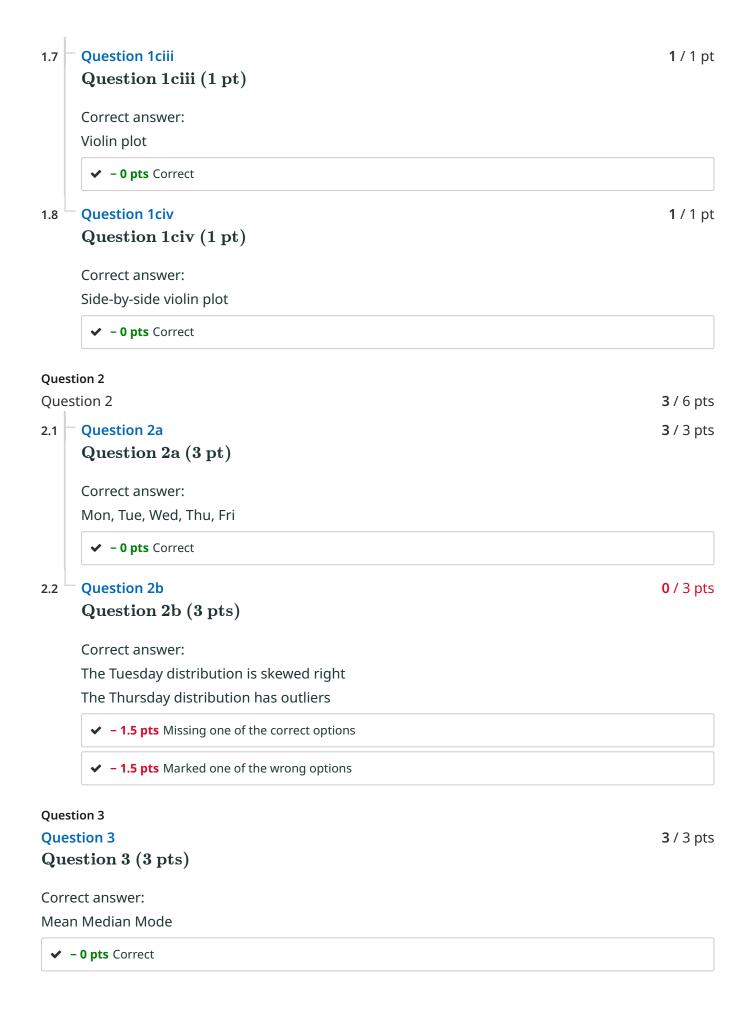
Quiz 3 • Graded

Student

Rey Stone

**Total Points** 

17 / 20 pts



## Write clearly and in the box:

Name: Rey Stone Student ID: 1116 44 637

## Quiz Rules:

## DO NOT TURN THIS PAGE OVER UNTIL THE QUIZ BEGINS.

- All cell phones must be stored in your backpack. If you have a cell phone anywhere on your body or at your desk
  during this quiz you will receive a 0 on this quiz.
- You are allowed a two-sided 8.5" x 11" crib sheet with hand-written (not typed) notes
- You are allowed a calculator
- You are allowed to use the Data Wrangling with Pandas Cheatsheet from the Canvas Modules
- No tablets, smartphones, smartwatches or any other electronic devices allowed.
- No collaboration with other students is allowed during this quiz.
- Show all work and simplify your answers!
- You have 15 minutes for this quiz.

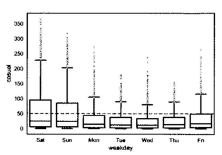
Once the quiz begins you can use this extra space for your work if you need more space.

You gather data on all the menu called menu.	items served at the APC over the last 12 months and put the data into a DataFrame  The menu DataFrame contains 5 columns:
Here are the first 5 rows of the m	• Item: The name of the item on the menu  nenu DataFrame:  • Month: The month of the year that the item was served  altegory Priority Calories Servings
O Scrambled Eggs Jan B  Veggie Fajita Burrito Jan Lunch G  Black Beans Feb  Chocolate Chip Cookie Apr	reakfast High 200 5420 • Category: The category of food (either Breakfast
	e using Pandas functions to select all the rows in the menu DataFrame that are st 150 Calories. Write your code directly in the box provided below.
· · · · · · · · · · · · · · · · · · ·	type of the following variables from the menu DataFrame:
i. Priority - \ow, wed Quantitative Disco	rete Quantitative Continuous  al Qualitative Nominal
i. Priority - low, wash Quantitative Discrete Qualitative Ordina ii. Servings - # of serving Quantitative Discrete Qualitative Ordina	Quantitative Continuous  al Qualitative Nominal  3\(\chi_{\chi_{\text{own}}}\chi_{\text{own}}\chi_{own
i. Priority - low, mode Quantitative Discrete Qualitative Ordina ii. Servings - # of servin Quantitative Discrete Qualitative Ordina iii. Category - no ordee ( Quantitative Discrete	Quantitative Continuous  al Qualitative Nominal  (constable)  rete Quantitative Continuous  al Qualitative Nominal  (briefl, lunch, disc)  rete Quantitative Continuous
i. Priority - low, mod Quantitative Disco Qualitative Ordina ii. Servings - # of serving Quantitative Disco Qualitative Ordina iii. Category - no ordeo { Quantitative Disco Qualitative Ordina Qualitative Ordina (c) (4 pts) You decide to try to	Quantitative Continuous and Qualitative Nominal Qualitative Nominal Qualitative Nominal Qualitative Nominal Qualitative Nominal Qualitative Continuous and Qualitative Continuous and Qualitative Continuous and Qualitative Nominal Qualitative Nomin
i. Priority - low, mode Quantitative Discrete Qualitative Ordina ii. Servings - flot serving Quantitative Discrete Qualitative Ordina iii. Category - no orde of Quantitative Discrete Quantitative Ordina (c) (4 pts) You decide to try to For the next 4 parts, choose to answer it. Choose only one answer i. Is there an association Scatter Plot Pie Chart ii. What is the distribution	Quantitative Continuous  al Qualitative Nominal  Qu
i. Priority - low, mode Quantitative Discrete Qualitative Ordina ii. Servings - flot serving Quantitative Discrete Qualitative Ordina iii. Category - no ordeo ( Quantitative Discrete Quantitative Ordina iii. Category - no ordeo ( Quantitative Ordina Qualitative Ordina Qualitative Ordina Compared to try to For the next 4 parts, choose to answer it. Choose only one answer i. Is there an association Scatter Plot Pie Chart ii. What is the distribution Line Plot Histogram	Quantitative Continuous  al Qualitative Nominal  Qu
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2. (6 pts)

Shown on the right is a summary of data from a bike sharing system in Washington D.C.

Riders were classified as either casual riders or registered riders. Here are boxplots of the distribution of the number of casual riders based on days of the week.



(a) Which days of the week frequently (at least 75% of the time) had less than or equal to 50 casual riders? Select all days that apply.

☐ Sat

☐ Sun

Mon Mon

☑ Tue

✓ Wed

(b) Which of the following are conclusions that we can make using only the boxplots shown in this figure? Select all that apply.

☐ the Tuesday distribution is skewed right

the Thursday distribution has outliers

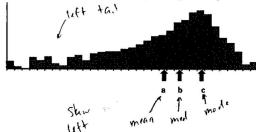
☐ the Monday distribution is unimodal

the Wednesday distribution is symmetric

☐ The mean of the Friday distribution is indicated by the middle line in its boxplot.

none of these

3. (3 pts) Use the histogram below to match each letter shown below with its corresponding descriptive statistic.



- (a) O Median
- aver Mean
- Mode

- Median
- Mean
- Mode
- (c) O Median Mean
- Mode "more often"

