Mean vs. Median Using .agg() Learn / Courses / Introduction to Statistics in Python ← ≡ Course Outline Ф Daily XP 680 ● 🕒 🗅 🗘 🗓 🛕 ■ Exercise Light Mode Histogram of CO2 Emissions for Rice Consumption Mean vs. median rice_consumption = In the video, you learned that the mean is the sum of all the data food_consumption points divided by the total number of data points, and the median is [food_consumption ['food_category'] == 'rice'] the middle value of the dataset where 50% of the data is less than the median, and 50% of the data is greater than the median. In this exercise, you'll compare these two measures of center. # Calculate mean and median of co2_emission with .agg() pandas is loaded as pd , numpy is loaded as np , and food_consumption is available. • Use .agg() to calculate the mean and median of co2_emission @ Take Hint (-9 XP) Run Code ← Previous Plot Next Plot \rightarrow In [1]:

Figure 1: Screenshot showing the histogram and task to calculate mean and median using .agg().

Question

In this exercise, you will use the .agg() method to calculate the mean and median of CO2 emissions for rice consumption.

The task involves the following steps:

Instructions:

1. Subset the food_consumption DataFrame to get the rows where the

food_category is 'rice'.

- 2. Use the .agg() method to calculate the mean and median of the co2 emission column for the rice consumption DataFrame.
- 3. Print the calculated values.

Corrected Code Solution

```
# Subset for food_category equals rice
rice_consumption = food_consumption[food_consumption['food_category']
== 'rice']
```

Calculate mean and median of co2_emission with .agg()
print(rice consumption['co2 emission'].agg(['mean', 'median']))

Answer Explanation

- 1. **Subset for rice consumption:** The rice_consumption DataFrame is created by filtering rows where the 'food category' column equals 'rice'.
- 2. **Use .agg() method:** The .agg() method is applied to the 'co2_emission' column to calculate both the mean and the median in a single step.
 - 'mean': Computes the average CO2 emission for rice consumption.
- 'median': Finds the middle value of the CO2 emission data, providing a measure of central tendency.
- 3. **Print the results:** The calculated mean and median are printed to provide insights into the dataset's central tendencies.