

## The CLT in Action

### Question:

Create a histogram of the `num_users` column of `amir_deals` and show the plot.

### Explanation of the Question:

This task requires visualizing the frequency distribution of the `num_users` column from the `amir_deals` DataFrame. By creating a histogram, we can observe the distribution and gain insights into the data's shape and spread.

### Answer:

```
import pandas as pd
import matplotlib.pyplot as plt

# Assuming amir_deals is a DataFrame with a column named 'num_users'
amir_deals = pd.DataFrame({
    'num_users': [10, 15, 12, 20, 25, 30, 22, 18, 14, 19, 28, 17]
})

# Use the built-in pandas method to create the histogram
amir_deals['num_users'].hist(bins=10, edgecolor='black')
plt.xlabel('Number of Users')
plt.ylabel('Frequency')
plt.title('Distribution of Number of Users')
plt.show()
```

### Explanation of the Answer:

The `amir_deals.hist` method from pandas simplifies the process of creating a histogram. The column `num_users` is selected to generate the plot, divided into 10 bins for better clarity. Using matplotlib, labels and a title are added, and the plot is displayed.