

Problem Set 1

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Answers to questions

Question #1

- I am using the data set from Congo-Brazzaville.
- The survey includes information from 1200 respondents.
- The responses were collected between 2023-06-20 and 2023-07-17.

Question #2

The ages were between 18 and 85, with a mean of 37.73 and median of 37.73. The other characteristics of the respondents are in the table below.

Table 1: Descriptive Statistics Summary Table

| Category | Variable | Count | Percentage |
|----------|---------------|-------|------------|
| Gender | Man | 599 | 49.92 |
| Gender | Woman | 601 | 50.08 |
| Region | Bouenza | 88 | 7.33 |
| Region | Brazzaville | 464 | 38.67 |
| Region | Cuvette | 48 | 4.00 |
| Region | Cuvette Ouest | 24 | 2.00 |
| Region | Kouilou | 32 | 2.67 |
| Region | Lekoumou | 32 | 2.67 |
| Region | Likouala | 40 | 3.33 |
| Region | Niari | 72 | 6.00 |
| Region | Plateaux | 56 | 4.67 |
| Region | Pointe-Noire | 240 | 20.00 |
| Region | Pool | 80 | 6.67 |
| Region | Sangha | 24 | 2.00 |
| Location | Rural | 360 | 30.00 |
| Location | Urban | 840 | 70.00 |
| Language | Français | 609 | 50.75 |
| Language | Kituba | 275 | 22.92 |
| Language | Lari | 15 | 1.25 |
| Language | Lingala | 248 | 20.67 |
| Language | Other | 25 | 2.08 |
| Language | Teke | 28 | 2.33 |

Question #3

Table 2: China Attitudes Frequency Table

| Response | Count | Percentage |
|-------------------------------|-------|------------|
| Very negative | 159 | 13.25 |
| Somewhat negative | 94 | 7.83 |
| Neither positive nor negative | 107 | 8.92 |
| Somewhat positive | 424 | 35.33 |
| Very positive | 397 | 33.08 |
| Don't know | 19 | 1.58 |

Question #4

Table 3: USA Attitudes Frequency Table

| Response | Count | Percentage |
|-------------------------------|-------|------------|
| Very negative | 122 | 10.17 |
| Somewhat negative | 140 | 11.67 |
| Neither positive nor negative | 301 | 25.08 |
| Somewhat positive | 392 | 32.67 |
| Very positive | 218 | 18.17 |
| Don't know | 27 | 2.25 |

Question #5

```
##
## Paired t-test
##
## data: df_clean$Q78A and df_clean$Q78B
## t = 8.8694, df = 1169, p-value < 2.2e-16
## alternative hypothesis: true mean difference is not equal to 0
## 95 percent confidence interval:
##  0.2369654 0.3715816
## sample estimates:
## mean difference
##      0.3042735
```