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Answer 4

Descriptive Statistics:

Summary: Gives us the descriptive stats like
In case of Numerical data:

Gives Mean, Mode, Median, Range.

Measure of Central Tendency:

- Mean (Titanic & fare)
32.2042 [an avg person spent \$32 to board the titanic]
- Mode (Titanic & Age)
24 [most common age on titanic]
- Median (train & fare)
14.542

Measure of Spread:

- Range (Titanic & fare) [It shows lowest and highest value of fare]
0.000 512.3292
- VAR (Titanic & fare)
2469.437

• $\text{sqrt}(\text{var}(\text{Titanic} \& \text{fate}))$

49.69343

• Inferential Statistics:

• Hypothesis Testing

$\text{new_data} \leftarrow \text{subset}(\text{Titanic}, \text{Titanic} \& \text{pcen} == 1)$

$\text{z.test} = \text{function}(a, b, n) \{$

$\text{sample_mean} = \text{mean}(a)$

$\text{popmean} = \text{mean}(b)$

$c = \text{newn}(n)$

$\text{var } b = \text{var}(b)$

$\text{z} = (\text{sample mean} - \text{pop mean}) / \text{sqrt}(\text{var } b / c)$

return. z

Call Function

$\text{z.test2}(\text{new_data} \& \text{Survival}, \text{Titanic} \& \text{Survival}$
 $\text{new data})$

7.423828