#### SOCI 33003: SOCIAL STATISTICS

#### Summer I 2025

#### Homework 5

(Due on June 25 (Wednesday), 2025 @ 12:00 pm)

NAME:

**STUDENT ID:** 

## Question 1 (20 pts)

For the following set of raw data, please compute its mode, median, mean, variance, and st.d.

12, 32, 1, 35, 89, 68, 23, 55, 6, 1, 23, 23, 23, 44, 50

## Question 2 (20 pts)

For the following frequency table data, please compute its mode, median, mean, variance, and st.d.

age	frequency	Cumulative frequency
2	103	
12	26	
21	17	
29	89	
33	34	
55	55	
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## Question 3 (20 pts)

For the following two city data in terms of their racial compositions, please compute their respective IQV

race	City A (%)	City B (%)
White	40	70
Black	10	5
Asian	15	5
Hispanics	25	10
Others	10	10
IQV		

# Question 4 (20 pts)

For the following crosstab between race and presidential vote, please compute and interpret the lambda ( $\lambda$ )

	white	black	others	RM
Joe Biden	563	52	69	
Donald Trump	794	25	71	

# Question 5 (20 pts)

For the following crosstab between education and financial situation, please compute and interpret its gamma (G)

	<hs< th=""><th>HS</th><th>College</th><th></th></hs<>	HS	College	
Better	67	46	58	
Worse	83	37	13	