Homework 1 - STAT 252

Question 12: Provide the interpretation of the confidence interval.

Solution: We are 99% confident that the population mean weekly grocery bill for all California residents during the first week of March 2024 is between $246.28 and $253.72.

Confidence Interval Interpretation Rubric (Total: 1.25 points)

Component	Description	Points
Confidence Level	Student explicitly states **"99% confidence"**	0.25
Population Parameter	Mentions the **population mean** as the target of inference	0.25
Context	Includes clear context: **weekly grocery bill for all CA residents, March 2024**	0.25
Numerical Bounds	Provides both lower and upper bounds: **$246.28 and $253.72**	0.50