

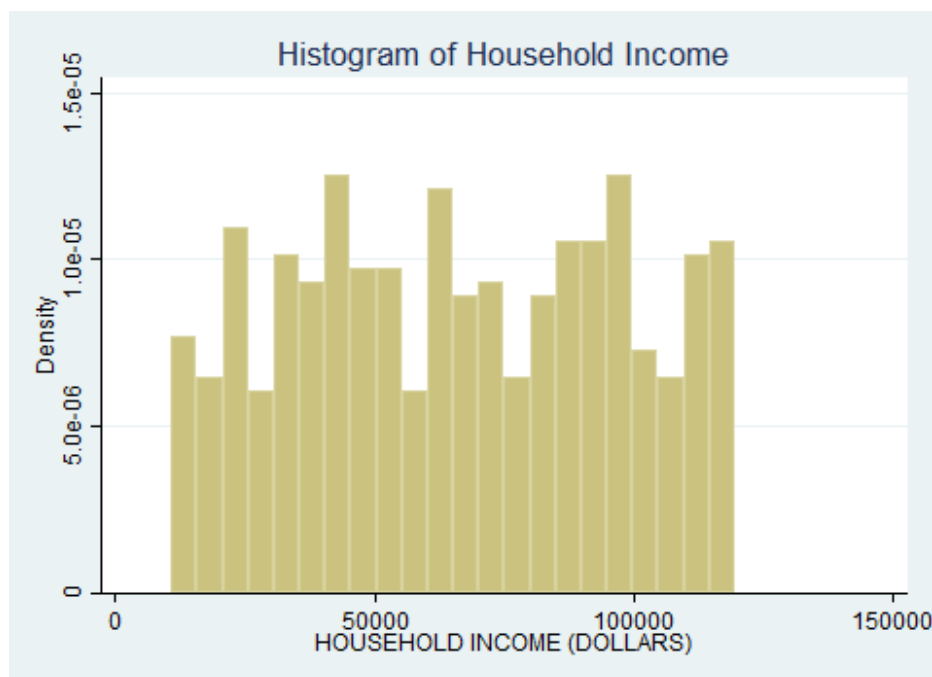
Use the data set “testscores.dta” for the following questions.

- Explore the data contained in the data set. Is there anything about the sample that stands out? Is it representative of the US population? (Hint: https://en.wikipedia.org/wiki/Demographics_of_the_United_States has info on the racial and income distribution of the US if you are unfamiliar with these.)

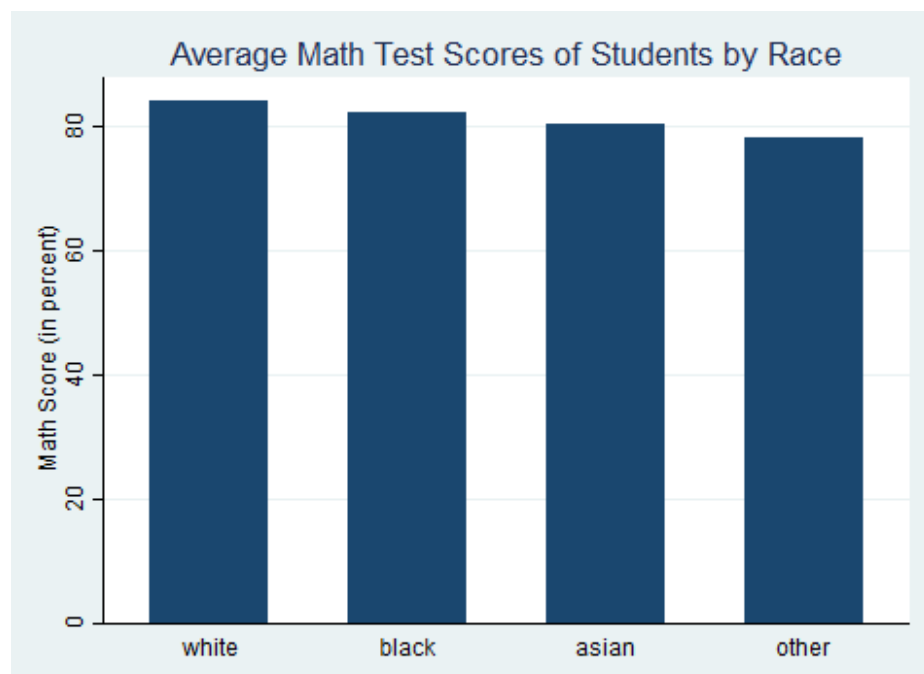
Answer: No, there is nothing about the sample that stands out. No, it is not the representative of the US population. This is because White Americans, for example, are 73% of total population, but in the data set of test scores, it is 18%.

- Create the following figures. Make sure that your figures are nicely labeled and formatted.

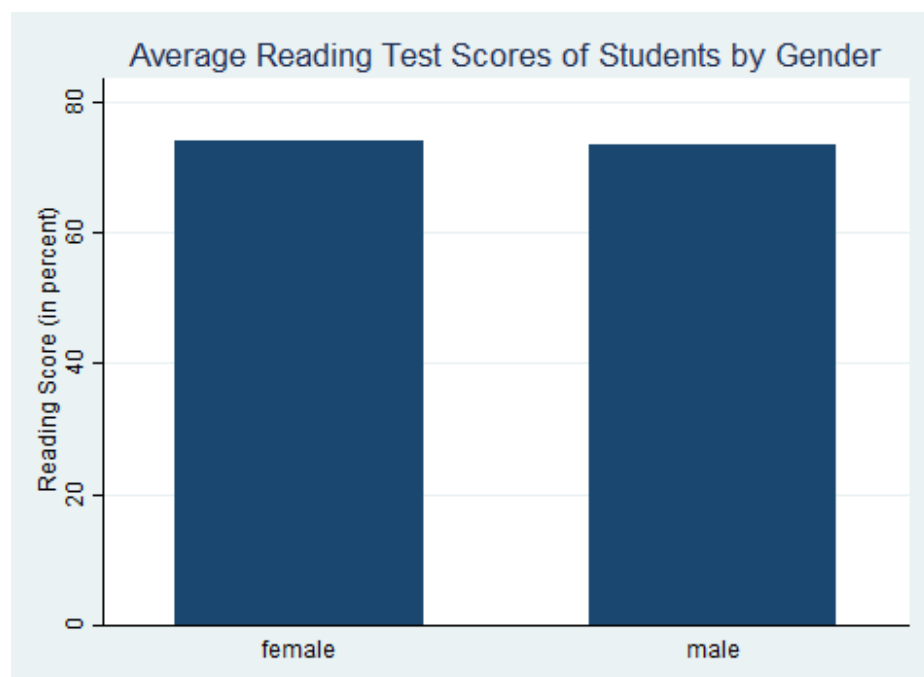
A histogram of household income



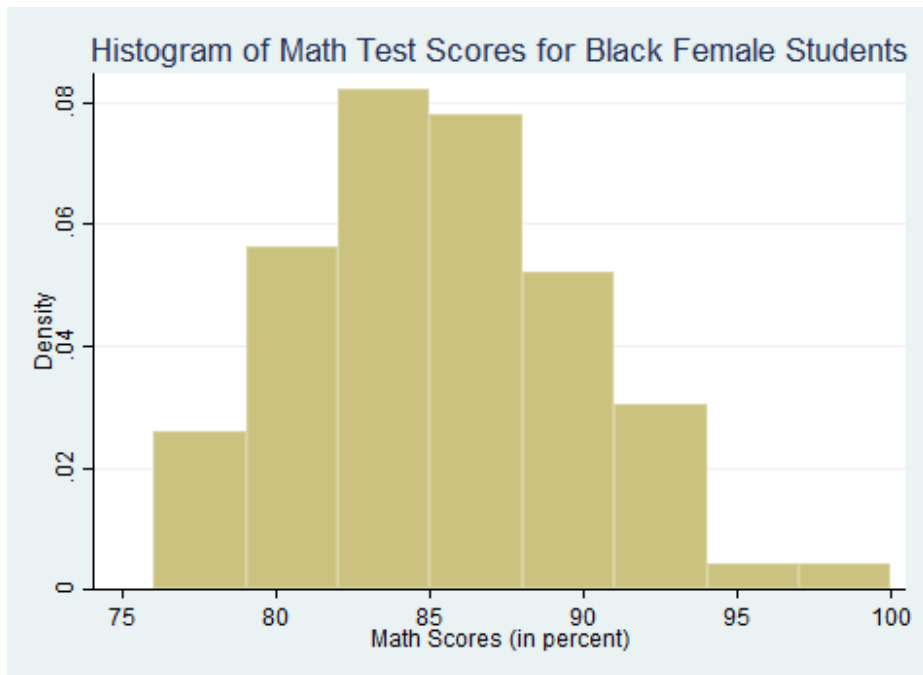
A bar chart of average math test scores by race



A bar chart of average reading test scores by gender



A histogram of math test scores for Black female students



A histogram of reading test scores for students from a household with an income less than \$50,000

