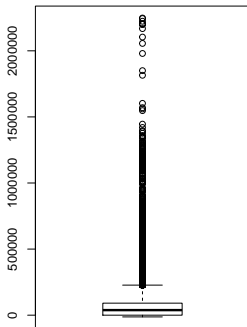


1. The US Census Bureau provides data about the 2018 household income for a sample of 94633 households. This data is depicted to the right as a box plot. Which of the following accurately describes the distribution?

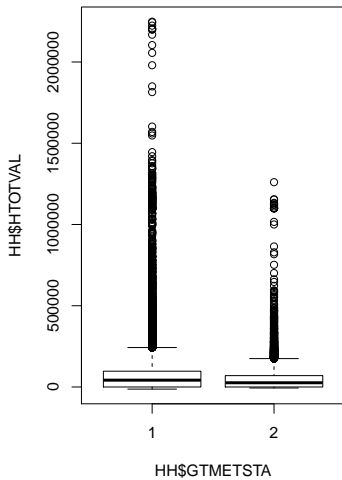
- (A) The distribution is left skewed.
- (B) The distribution is right skewed.
- (C) The distribution has no skew.
- (D) None of the above.



2. The same data set by the US Census Bureau also tells us whether each household is “metropolitan” or “non-metropolitan.” If we wanted to compare the distribution of annual household income based on whether or not the household is “metropolitan,” we might use a...

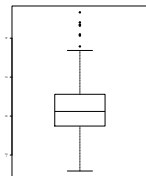
- (A) Scatter plot.
- (B) Side-by-side bar plot.
- (C) Mosaic plot.
- (D) None of the above.

If you're curious...

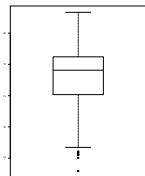


4. Which of the following box plots does the histogram on the right correspond to?

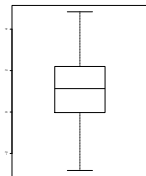
(A)



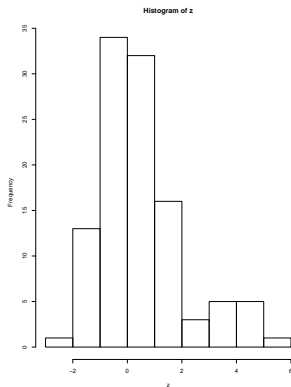
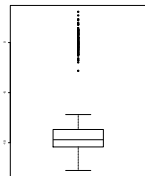
(C)



(B)

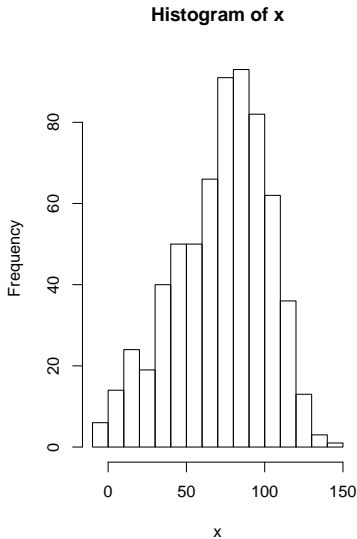


(D)



5. The histogram of a numerical variable x is depicted to the right. Which of the following is true about x ?

- (A) The mean is higher than the median.
- (B) The median is higher than the mean.



6. Activity!

You suspect that, among students taking MA117 this block, there may be an association between height and pinky length. In a group with your tablemates,

- ▶ Design a study,
- ▶ Collect data,
- ▶ Use R to make plots, and
- ▶ Qualitatively describe what you find.

You have until 11:45.