**Week 2 Quiz**

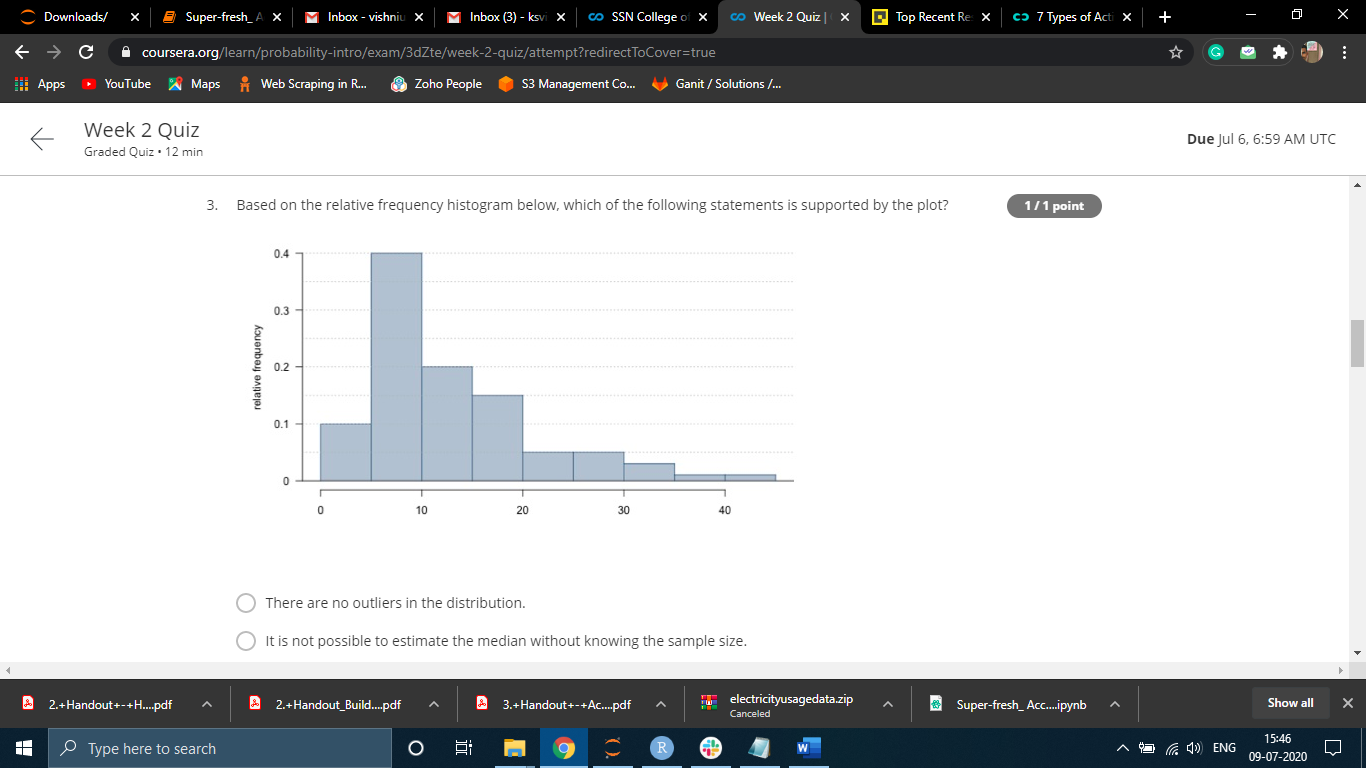
1.Which of the below data sets has the **highest** standard deviation? You do not need to calculate the exact standard deviations to answer this question.

0,100, 200,300,400,500

2. The distribution of housing prices in a country where 25% of the houses cost below $350,000, 50% of the houses cost below $450,000, 75% of the houses cost below $1,000,000 and there are a meaningful number of houses that cost more than $6,000,000 is most likely

Right Skewed

3. Based on the relative frequency histogram below, which of the following statements is supported by the plot?



The IQR of the distribution is roughly 10

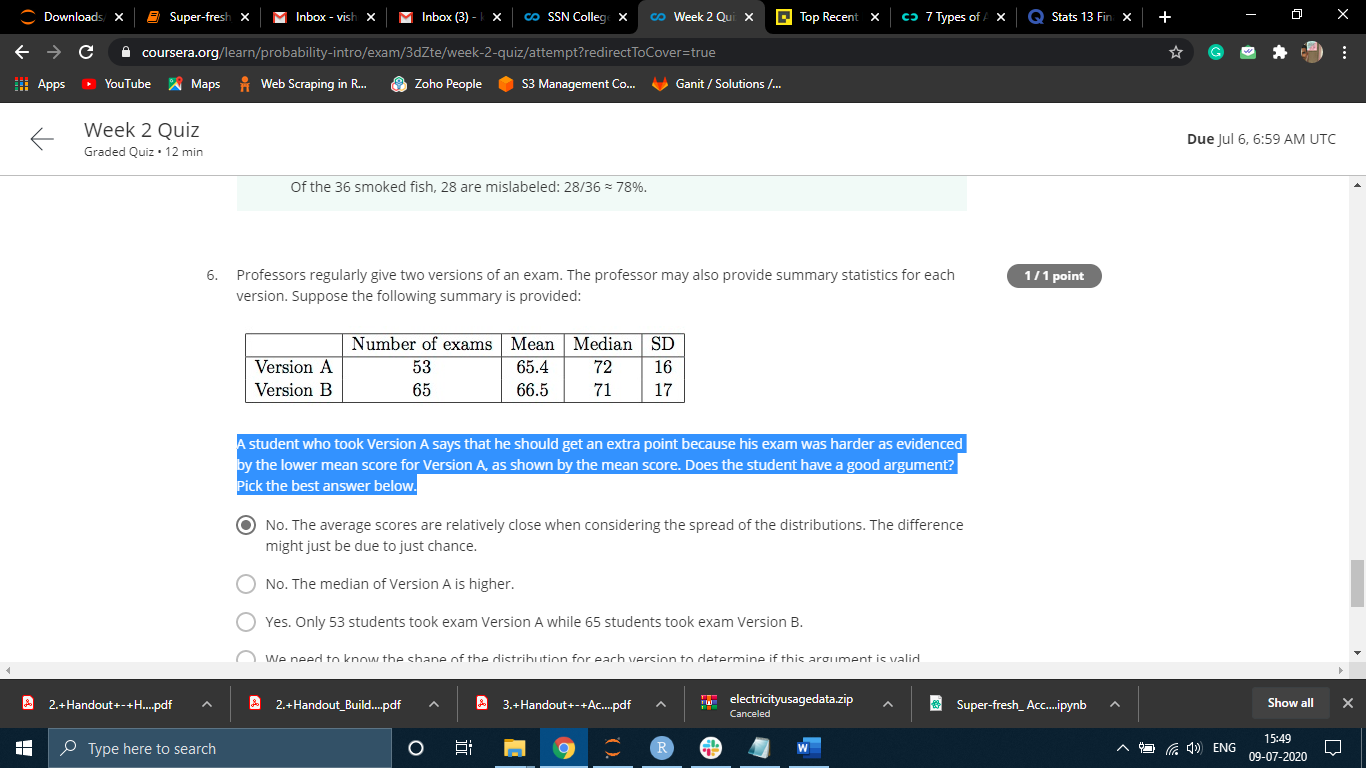
4. A recent housing survey was conducted to determine the price of a typical home in a city that is mostly middle-class, with one very expensive suburb. The mean price of a house in this city is roughly $650,000. Which of the following statements is **most likely** to be true?

Majaroity of the Houses cost less than $650000

5. It is relatively common for fish to be mislabeled in supermarkets and even in restaurants. The table below shows the results of a study where a random sample of 156 fish for sale were collected and genetically tested. The researchers classified each sample as being labeled properly or being mislabeled. What fraction of smoked fish in the sample were mislabeled? Choose the closest answer.

78%

6. Professors regularly give two versions of an exam. The professor may also provide summary statistics for each version. Suppose the following summary is provided:



A student who took Version A says that he should get an extra point because his exam was harder as evidenced by the lower mean score for Version A, as shown by the mean score. Does the student have a good argument? Pick the best answer below.

No, The Average scores are relatively close when considering the spread of the distributions. The difference might just be due to just chance.