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Video 4 Measures of Center

1. What *variable* is examined in comparing men and women workers at the beginning of the video?

The variable is the wages of men and women.

2. Would you describe the shape of the distribution of men's weekly wages as symmetric, skewed to the left or skewed to the right?

Skewed to the right

3. What is the most important difference between the distributions of weekly wages for men and for women?

The most important difference is the median.

4. Would a few very large incomes pull the mean of a group of incomes up, down, or leave the mean unaffected?

The mean would be pulled up.

5. Would a few very large incomes pull the median of a group of incomes up, down, or leave the median unaffected?

The median would be unaffected.

Video 5: Boxplots (Not Required)

1. What variable is used to compare different brands of hot dogs?

2. What name do we give to the value for which one-quarter of the data values falls at or below it?

3. What numbers make up a five-number summary?

4. How do you calculate the interquartile range?

5. Boxplots show that poultry hot dogs as a group differ from all-beef hot dogs. Compare the distribution of calories between the two types of hot dogs.