The Eyes Have It

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Box And Whisker Plot

- These are useful representations of the distribution of values in a data set. It is constructed from the five-number summary of the data (minimum value, maximum value, median, lower quartile, and upper quartile).
Values

- **Minimum Value**: The smallest piece of data.
- **Maximum Value**: The largest piece of data.
- **Median**: The number in the middle of a set of data when the data are arranged in order.
  - When there are two middle numbers, the median is their mean.
- **Lower Quartile**: The median of the data values below the median.
- **Upper Quartile**: The median of the data values above the median.
Instructions

- Estimate how long you think that you can go without blinking your eyes.
- With a partner, collect data from seven experiments to determine how long you can go without blinking your eyes.
- Make two Box-and-Whiskers plots; your data and your partner’s data.
Answer the Following Questions

- How far was your estimate from the mean of your experiment?
- What is the range of your data?
- What is the difference between your mean and your minimum value?
- What is the difference between your maximum value and your mean?
- According to the box-and-whisker plot, most of your data fell between what two numbers?
- Compare your diagram to that of your partner