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EDG 500 Educational Research and Statistic

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 January 31, 2023

Video 3 Histograms

1. The video opens by describing a study of lightning strikes in Colorado. What variable does the first histogram display?

- The first histogram displays when most lightning storms start.

2. In this lightning histogram, what does the horizontal scale represent? What does the vertical scale represent?

- The horizontal scale represents the time of the day of the first flash. The vertical scale represents the percentage of days the first flash occurred at that time.

3. Was the overall shape of this histogram symmetric, skewed, or neither?

The shape of this histogram was roughly symmetrical around the tallest bar.

4. Why were a few values in the second lightning histogram called outliers?

- They are called outliers because data points like these stand out from the overall pattern of distribution.

5. When you choose the classes for a histogram, what property must the classes have if the histogram is to be correct?

- The Class size is important for the histogram to be correct.

6. What happens to a histogram if you use too many classes? What happens if you use too few?

- If you use too many classes it's hard to make sense of the data due to too many details. If you use too few classes it won't be as informative and will have too many details .

Reference

Histograms. Annenberg Learner. (2019, August 13). Retrieved January 31, 2023, from

https://www.learner.org/series/against-all-odds-inside-statistics/histograms/