

Descriptive Statistics

1. You have the following data on the age of 5 employees in a company:

25, 28, 33, 36, 36

Which of the following is true?

- Unlike the median, extreme values do not affect the mode.
 - The mean, median and mode are all values that appear in the dataset.
 - If the last observation changed from 36 to 53, the mean would change but the median would not.
 - The age distribution is highly skewed to the right.
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2. Which of the following statements is true?

- If the data values are all negative, all the measures of dispersion will also take negative values.
 - Range, variance and interquartile range are all measured in the same units as the data.
 - The interquartile range of a set of numbers will always be less than or equal to the range.
 - The range and IQR are both unaffected by extreme values.
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