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| **Exploring the Effect of Outliers on Mean, Median, and Mode** |
| Identifies outlier(s) in a data setNumber of baskets scored by a basketball player in 8 games:6, 7, 5, 6, 14, 6, 4, 3 The outlier is 14. | Determine the mean for a data set with and without the outlierOrder the data: 3, 4, 5, 6, 6, 6, 7, 14With the outlier, the mean is 6.375.3, 4, 5, 6, 6, 6, 7Without the outlier, the mean is 5.286. | Explains whether the outlier should be included when the mean is calculated3, 4, 5, 6, 6, 6, 7, 14The outlier should not be included because only 2 numbers in the data set are greater than the mean when the outlier is included. | Identifies the effects of an outlier on the median and mode3, 4, 5, 6, 6, 6, 7, 14The median is 6.The mode is 6.3, 4, 5, 6, 6, 6, 7The median is 6.The mode is 6.The outlier does not affect the median or mode. |
| **Observations/Documentation** |
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