

Activity 5 Assessment

Exploring the Effect of Outliers on Mean, Median, and Mode

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<p>Identifies outlier(s) in a data set</p> <p>Number of baskets scored by a basketball player in 8 games: 6, 7, 5, 6, 14, 6, 4, 3</p> <p>The outlier is 14.</p>	<p>Determine the mean for a data set with and without the outlier</p> <p>Order the data: 3, 4, 5, 6, 6, 6, 7, 14 With the outlier, the mean is 6.375.</p> <p>3, 4, 5, 6, 6, 6, 7 Without the outlier, the mean is 5.286.</p>	<p>Explains whether the outlier should be included when the mean is calculated</p> <p>3, 4, 5, 6, 6, 6, 7, 14</p> <p>The outlier should not be included because only 2 numbers in the data set are greater than the mean when the outlier is included.</p>	<p>Identifies the effects of an outlier on the median and mode</p> <p>3, 4, 5, 6, 6, 6, 7, 14 The median is 6. The mode is 6.</p> <p>3, 4, 5, 6, 6, 6, 7 The median is 6. The mode is 6. The outlier does not affect the median or mode.</p>
Observations/Documentation			