

Activity 5 Assessment Exploring the Effect of Outliers on Mean, Median, and Mode

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