

18.1 Effects of an Outlier

Name: _____ Date _____

- a) Circle the outlier in each problem below.
- b) Determine the mean, median, mode, and range of the data set *without* the outlier.
- c) Determine the mean, median, mode, and range of the data set *with* the outlier.
- d) Describe the effect the outlier has on the mean, median, mode, and range.

1. 3, 2, 6, 4, 3, 5, 16

	Without Outlier	With Outlier
Mean		
Median		
Mode		
Range		

Effect:

2. 20, 17, 19, 22, 18, 17, 5

	Without Outlier	With Outlier
Mean		
Median		
Mode		
Range		

Effect:

3. 42, 38, 45, 68, 40, 39, 39, 41,

	Without Outlier	With Outlier
Mean		
Median		
Mode		
Range		

Effect:

3. 12, 24, 12, 15, 9, 11, 10, 13

	Without Outlier	With Outlier
Mean		
Median		
Mode		
Range		

Effect:

5. 4, 2, 8, 5, 6, 20, 7, 9,

	Without Outlier	With Outlier
Mean		
Median		
Mode		
Range		

Effect:

6. 105, 98, 101, 100, 99, 89, 40, 98

	Without Outlier	With Outlier
Mean		
Median		
Mode		
Range		

Effect: