

Mean, Median, Mode and Range with Outliers

1. For each of the below, calculate the:

i. Mean

iii. Mode

ii. Median

iv. Range

2. Identify the outlier in each data set.

3. Exclude the outlier from each set and recalculate:

i. Mean

iii. Mode

ii. Median

iv. Range

a. 24, 31, 12, 120, 38, 12, 15

f. 39, 82, 74, 96, 64, 200, 52, 74

b. 5, 28, 199, 16, 32, 5, 16, 48, 29, 5, 35

g. 10, 12, 10, 9, 11, 55, 10, 13

c. 53, 13, 34, 150, 41, 13, 61, 34, 13, 69

h. 31, 29, 45, 60, 27, 33, 150, 32, 30

d. 85, 58, 72, 85, 200, 46, 93

i. 48, 42, 1, 43, 49, 50, 44, 41, 49

e. 92, 63, 22, 5, 80, 63, 71, 44, 35

j. 7, 8, 6, 100, 5, 6, 7, 6, 8, 7

4. Does the range always get smaller when you exclude the outlier? Explain your reasoning.