

# Measurement Types Central Tendency





### Measurements of Data

"What was the average return?"
 Measures of Central Tendency

 "How far from the average did individual values stray?"
 Measures of Dispersion





## Measures of Central Tendency (mean, median, mode)

- Describe the "location" of the data
- Fail to describe the "shape" of the data

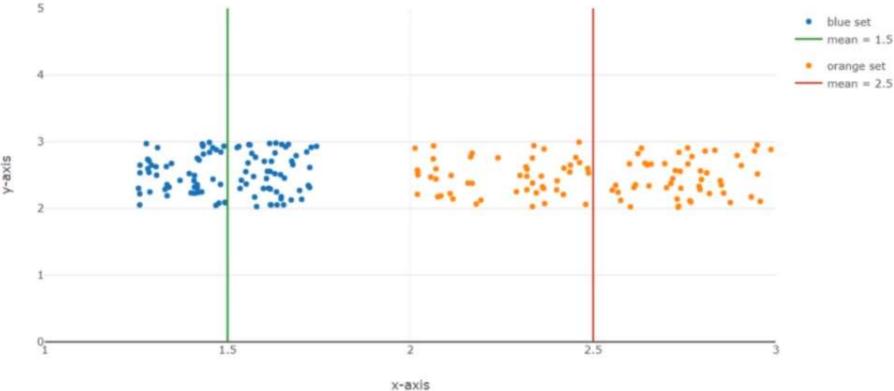
mean = "calculated average"

median = "middle value"

mode = "most occurring value"





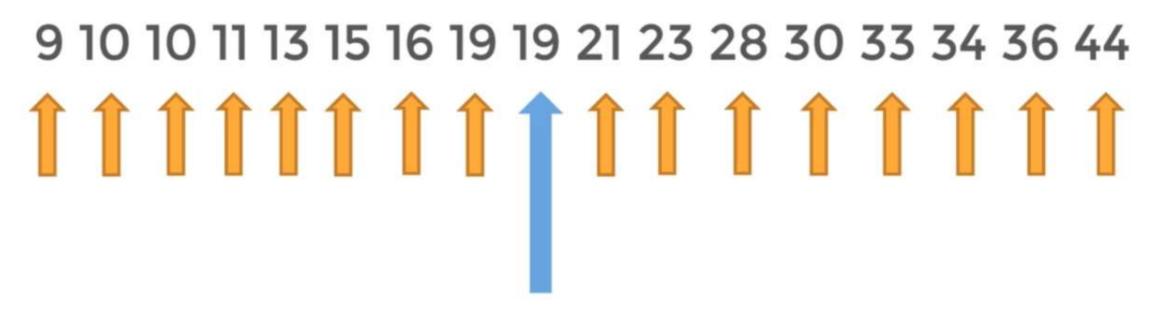


Shows "location" but not "how spread out"





### Median - odd number of values

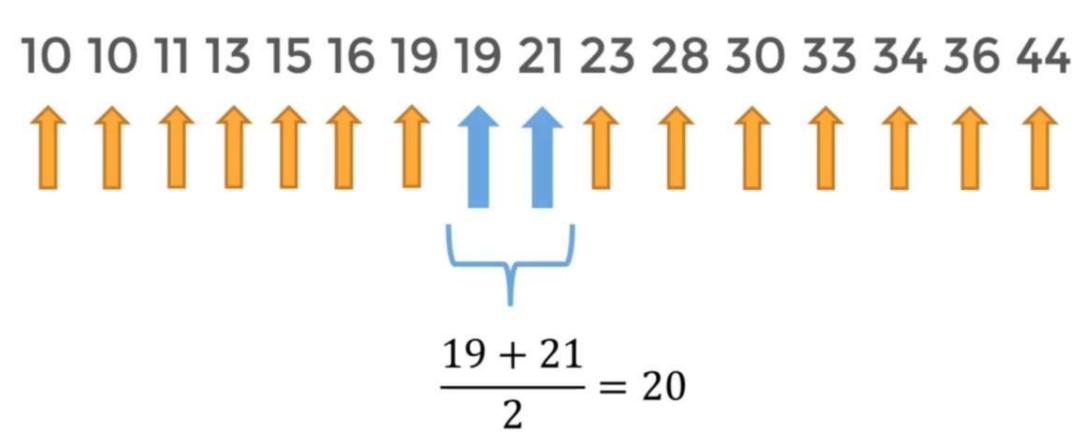


= 19

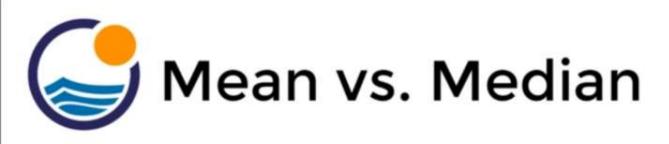




### Median - even number of values







- The mean can be influenced by outliers.
- The mean of {2,3,2,3,2,12} is 4
- The median is 2.5
- The median is much closer to most of the values in the series!





10 10 11 13 15 16 16 16 21 23 28 30 33 34 36 44

= 16

