

Mean

“*Arithmetic Average*” = add them all up and divide by the count

Not resistant: easily influenced by extreme values or outliers

Can do a “trimmed” mean (leave off the most extreme values, like 1% or 5%)

In a POPULATION: “Mu” (μ)

$$\mu = \frac{\sum X_i}{N}$$

In a SAMPLE: “X-bar” (\bar{X}) but APA uses “M” for abbreviation

$$\bar{X} = \frac{\sum X_i}{n}$$

Median

50th percentile, APA: “Mdn”

“Middle” value, when ordered/ranked in increasing order

ODD #: middle value

EVEN #: avg of 2 middle

Half the values are above, and half below

Easy for a computer to do

RESISTANT: NOT influenced by a few extreme values or outliers

Mode

Most common value, largest frequency, highest peak

Non-uniqueness - can have more than one mode

Doesn't always represent the ‘center’

Do NOT usually use, other than descriptively