

### CH. 3 HW PROBLEMS

#1. State the statistical notation

- (a) Population size =  $N$
- (b) Sample size =  $n$
- (c) Population mean =  $\mu$
- (d) Sample mean =  $M$

#5. List 5 characteristics of the mean

- Changing an existing score
- Adding a new score or removing an existing score
- Adding, subtracting, multiplying or dividing each score by a constant
- Summing the differences of scores from their mean
- Summing the squared differences of scores from their mean

#9. Mode is an appropriate measure describing what types of data?

The mode typically describes data with modal distributions and measures on a nominal scale

#13. Which measure of central tendency is most appropriate for describing these data? (Moms & SLEEP)

Mean or normal distribution, the mean is the most often used because all scores are included in the calculation

#17. Which measure of central tendency is most appropriate for describing these data? (Sports psychology)

Median, because the outliers will not affect the median as it affects the mean.

#21. Central Tendency...

- (a) Mean or Median
- (b) Mode
- (c) Mode