

Measures of Central Tendency show us how data cluster or come together in the variables' categories. For each measure below, describe what you find.

Variable: X	f	cf	%	c%	X * f

1. What is the MEAN category?

$$\bar{X} = \frac{\sum X}{N} \text{ or } \frac{\sum (Xf)}{N}$$

2. What is the MEDIAN category?

$$\text{MedianPosition} = \frac{(N+1)}{2}$$

3. What is the MODE or MODAL category?

Mode=most frequent category

4. Is this distribution skewed?

Symmetrical=mean=median-mode

Negative skew=mean<median

Positive skew=mean>median

5. Which category is at the 50th percentile?

$$(\text{percentile} = K) \dots \frac{NK}{100} = \text{position}$$

6. _____ is at what percentile?
(your category)

$$\text{percentile} = \frac{(\# \text{ values below } X) + .5}{N} * 100$$

This percentile tells you how you compare to others; what does it mean for you to be in this percentile?