Central Tendency

April 17, 2019   8:25 AM

1. Define MEAN - AKA average. Add all values. Divide the sum by the amount of values in the number set.

   Examples:

   a. For the 2 woman bobsleigh, the team with the fastest overall time in 4 runs wins. If the Canadian team had runs that were 57.39 sec, 57.73 sec, 57.57 sec, and 57.92 sec, then what was their average (mean) speed?

   $$57.39 + 57.73 + 57.57 + 57.92 = 230.61$$ this is the SUM

   $$230.61 \div 4 = 57.65|25 = 57.65 \text{ sec}$$

   b. $12, 13, 14, 19, 19.5, 22, 13$ tenth

   $$\text{sum} = 112.5 \div 7 = 16.0\overline{7}14..... = 16.1$$ up

2. Define MEDIAN - AKA Middle. Rewrite Low to high. The middle value is the median. If there a 2 middle values, calculate the Mean of those 2 values.

   Define MODE - AKA MOST. Choose the value that repeats most often. Can have multiple, single OR no mode. If 2+ modes, choose most repeats.
   ex: 3 3 4 4 4 → mode is 4 even though 3 repeats

   Examples:

   1. The Vancouver Canucks won 7 out of 10 games. The team scored the following amount of goals over the past 10 games: 5, 4, 3, 2, 1, 5, 3, 3, 7, 4.

   a. What is the mode? 1 2 3 3 3 4 4 5 5 7   mode = 3

3, 4, 3, 2, 1, 3, 3, 3, 7, 4.

a. What is the mode? 1 2 3 3 3 4 4 5 5 7   mode = 3

b. What is the median? 1 2 3 3 3 4 4 5 5 7   median = 3.5

$$3 + 4 = 7 \div 2$$

2. What is the mode and median of: 4, 2, 9, 6, 4

2 4 4 6 9   mode = 4
median = 4

Homework:

4 – 11, 13 – 17