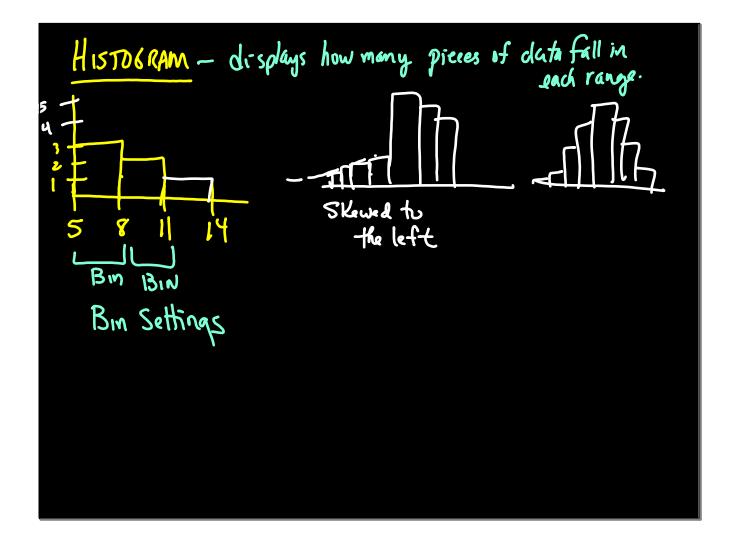
the science of collecting, analyzing, TATISTICS -+ reporting information about a set if data Heights of U.S. Mountains Steam-and-Leaf Plot Truncated Rounded 15015 15,705 17,440 16,286 15, 320 16,277 5322 16 3346 16,550 16,390 20,320 18,00 8 15,658 20,306 20/3= 20,250-20,250 20,349



MEASURES OF CENTRAL TENDENCY

- describe the "center" of the data Mean = "average" = Sum of data
of items

Sample population

X

M (mu)

5 8 17 29 30 56 $\overline{X} = \frac{147}{7} = 21$

Median - the middle value - Data most be in order!

Data set: 200 values 200 = 100 101 51 - Find musical terms. Data set: 75 values 35 = 37.5 = 38th

Mode = the most frequent value can have up to 3 modes

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23. $[2,000 = 276,000]$

9. $[25,000 = 225,000]$

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Convenience - ask whoever is readily available

Random - Everyone has an = chance

Systematic = Select every Kth person

Stratified = Break pop. into groups

© Randomly select from each group

Cluster = (1) Break pop. into groups

Q Randomly select a few groups

+ Survey everyone in the group.