- Topic: Quantitative Data
- Objective: Students will be able to calculate the mean, median, and mode of a data.
- Standards: AP Stats: UNC-1 (EU), UNC-1.K (LO), UNC-1.K.2 (EK)
- CCSS Math: 6.SP.A.3, 6.SP.B.5, 6.SP.B.5c, 6.SP.B.5d

- Mean Aug., Arithmetic Mean Median Middle (Add + Divide)
- Mode Most Often
- Example: Given the following test scores from a class, find the mean, median and mode of the data.

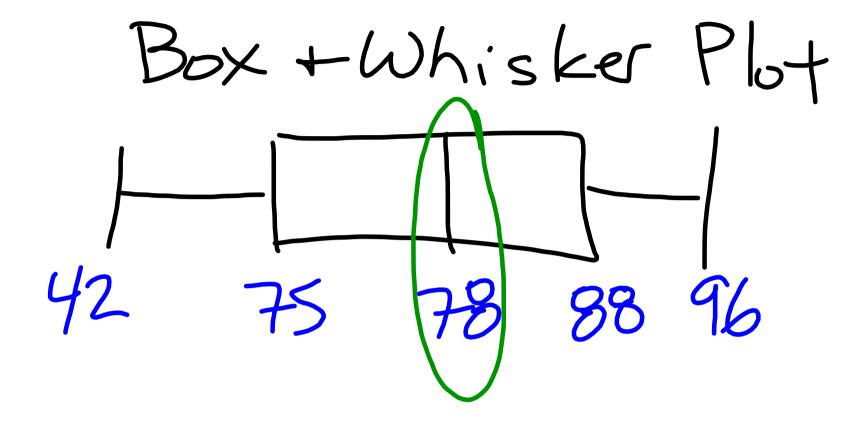
Test Scores: 96, 78 88, 75, 42, 78

Mean, median and mode of the data.

Sample X

HI O X

Median = 78 Mode: 78



- Effects of shifting, adding, & removing a data point.
- Example: Given the following test scores from a class, what happens to the mean, median and mode of the data if you remove the lowest score?

Test Scores: 96, 78, 88, 75, 42, 78

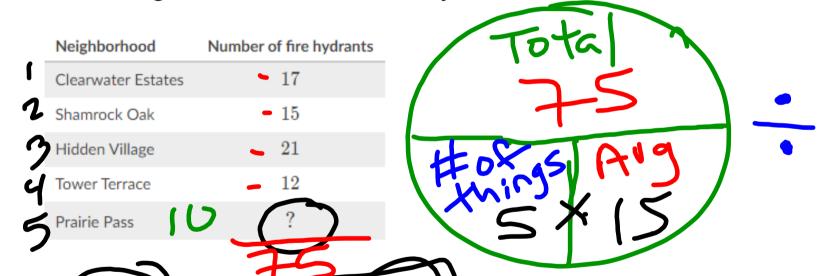
Mean: 83 up

Median: 7-8 Same

Mode: 78 Same

Missing Value Given the Mean

• Example: The following is a table of the number of fire hydrants in each neighborhood overseen by Fire District 19:



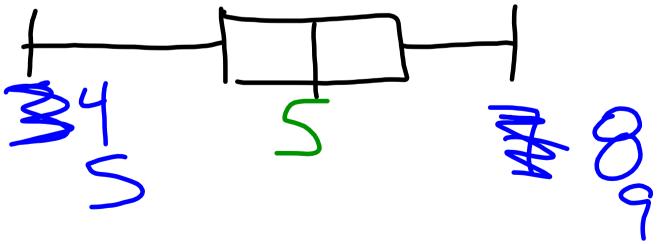
If the mean of the data set is 15 fire hydrants, find the number of fire hydrants in Prairie Pass.

Median & Range Puzzlers

- The median number of coloring contests won by 4 kids in a certain year is 5. The range of number of contests won by those kids that year is 6.
- Determine if the following statement is true, is false, or does not contain enough information.

• At least one of the kids won exactly 5 coloring contests.

- Median & Range Puzzlers
- The median number of goals scored by 7 players in a certain soccer season is 5. The range of the number of goals scored by those players that season is 4.
- Determine if the following statement is true, is false, or does not contain enough information.
- One of the players could have scored 5 more goals than another player.



Displaying and Comparing Quantitative Data

You should be working on the following skills:

- 1. Shape of distributions
- 2. Clusters, gaps, peaks, and outliers
- 3. Comparing distributions
- 4. Comparing data displays
- 5. Comparing data distributions
- Comparing center and spread

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Spirit Week is This Week, extra credit for anyone who participates!