Today's Agenda

- Warm-Up ** please put homework on your desk
- Review Homework
- Sections 1.7 Analyzing Data
- Classwork / Homework

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Mean - the __average___ of a set of numbers

Median - the __middle number when the data values are placed in order from __least__ to __greatest__

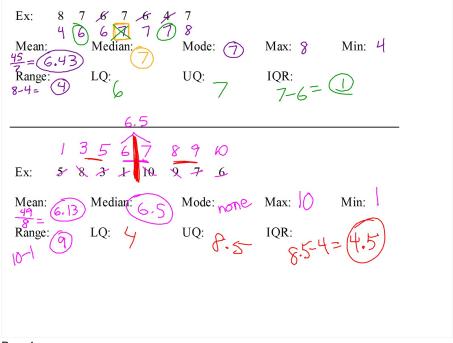
Mode - the number (or numbers) that occur __most___ frequently

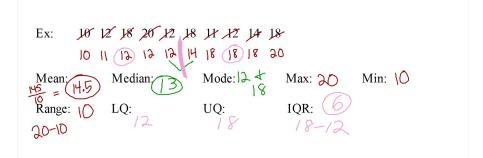
Minimum - The __smallest___ number in a set of data.

Maximum - The __greatest__ number in a set of data.

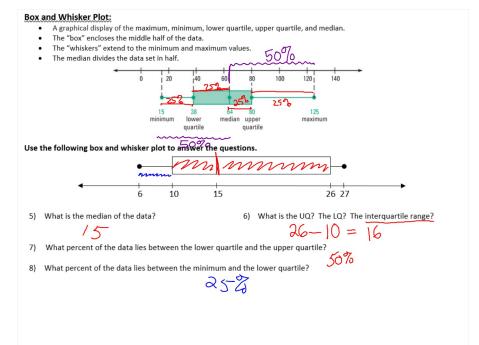
Range - The __dreatest__ between the __maximum__ and the __minimum__.

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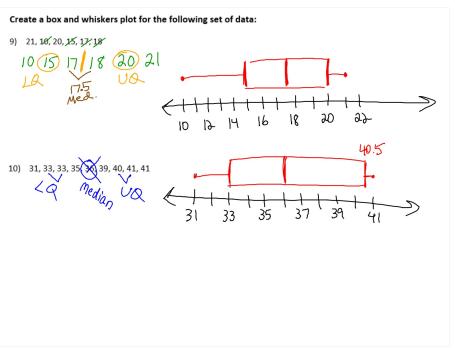
Stem and Leaf Plot:

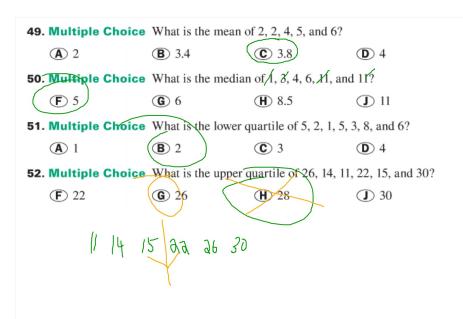
- · A display where the data is organized by place value
- The "stem" is the left-hand column which contains the tens digits.
- The "leaves" are the lists in the right-hand column, showing all the ones digits.

Create a stem and leaf plot for the following list of grades on a recent test. Then find the mean, median, and mode.

4) 73, 42, 67, 78, 99, 190, 84, 91, 82, 86, 94, 100

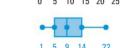
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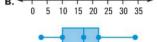




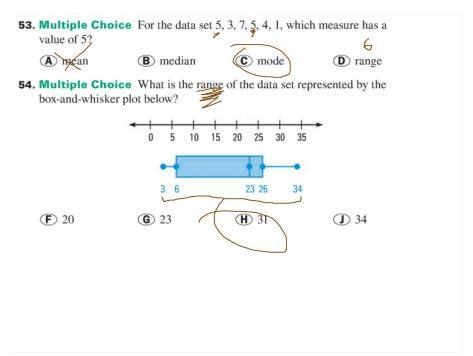
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Travel Time In Exercises 43–46, use the following box-and-whisker plots representing the numbers of minutes that the students at two schools spend traveling to school.





- **43.** About half of the students at school A take fewer than how many minutes to get to school?
- **44.** About three quarters of the students at school B take fewer than how many minutes to get to school?
- **45.** At which school is the range of travel times greater?
- **46.** What fraction of the students at school B take longer to get to school than any of the students at school A?



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Classwork/Homework: In Exercises 3–9, use the following data set which gives the lengths of calls in minutes by a cellular telephone user. p.49: # 3-9, 24-28,

49: # 3-9, 24-28, 38, 42

1, 2, 2, 4, 5, 5, 8, 12

3. Find the mean.

4. Find the median.

5. Find the mode(s).

- 6. Find the range.
- 7. Find the lower quartile.
- **8.** Find the upper quartile.
- 9. Draw a box-and-whisker plot of the data set.

Car Prices In Exercises 24–28, use the following information.

At a car lot, you find six used cars that fit your needs. The prices of these cars are \$9460, \$10,400, \$7500, \$9720, \$10,400, and \$9800.

- **24.** Find the range of the prices.
- **25.** Find the mean, median, and mode(s) of the prices.
- **26.** You are also interested in a new car on the lot. The sticker price is \$20,250. Find the mean, median, and mode(s) of the prices of the seven cars.
- 27. Describe how the price of the seventh car changes the mean. Describe how this price changes the median.