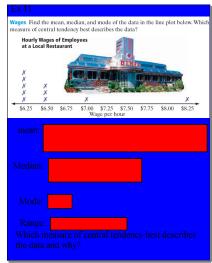
## Ch 1.6

*Measures of Central Tendency -* are numbers used to represent the middle of the data.

- 1. <u>Mean-</u> (average) the sum of the numbers dividing by how many in the set of data.
- 2. <u>Median</u> is the number in the middle when the data is placed in numerical order or average of the 2 middles.
- 3. <u>Mode</u> the number(s) that appear the most often in the data set.
- 4. *Range* the highest score lowest score

<u>Outlier</u>- is a value that is much larger or smaller than all the other scores in the data set. It will *skew* the mean.

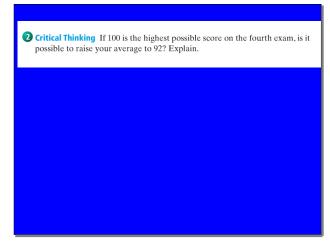
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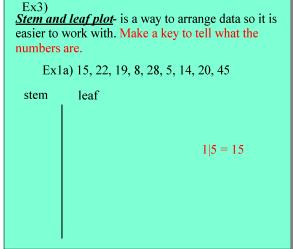
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## **EXAMPLE** Solving an Equation Suppose your grades on three history exams are 80, 93, and 91. What grade do you need on your next exam to have a 90 average on the four exams? Use the formula for mean. 80 + 93 + 91 + x = 90Let x = the grade on the fourth exam. $\frac{264 + x}{x} = 90$ Simplify the numerator. $4\left(\frac{264+x}{4}\right) = 4(90)$ Multiply each side by 4. 264 + x = 360Simplify. 264 + x - 264 = 360 - 264Subtract 264 from each side. x = 96Simplify. Your grade on the next exam must be 96 for you to have an average of 90.

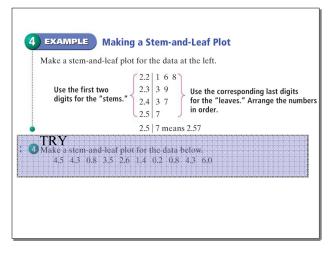
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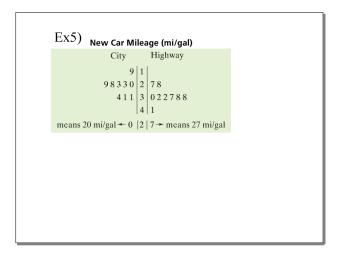
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