Four common ways of measuring the average of a set of data:

- 1. Mode the data point that occurs most often a. If two outcomes occur most often, then there is no unique mode and the data is described as ______
 - b. If more than two outcomes occur most often, then the data is called Dimodal
- 2. Median-when the points are listed from smallest to largest it is the middle number a. If there is an even number of outcomes, then the <u>average</u> of the

a. If there is an even number of outcomes, then the <u>bertage</u> of the middle two outcomes is considered the median.
3. Mean - add up all the numbers and divide by how many numbers we have.

Example: Find the mean, median, mode, and range of the following data. a) 22.7. 20.0. 22.7. 23.7. 23.8. 20.6. 22.1. 21.2. 194. 20.7

$$\begin{array}{rcl} 19, 4, 20.0, 22.1, 20.0, 22.1, 20.0, 22.1, 20.2, 19.1, 29.1\\ 19, 4, 20.0, 20.6, 20.1, 21.2, 22.1, 22.7, 23.7, 23.8\\ \underline{\text{Mode}} & \underline{\text{range}} & \underline{\text{Mean}}\\ 22.7 & 23.8 - 19.4 & \underline{19.4 + 23.7 + 23.8}\\ & -4.4 & 10 & \underline{21.2 + 22.1}\\ & -21.69 & -21.65 \end{array}$$

b)
$$\frac{1}{12}$$
 $\frac{1}{12}$ $\frac{1}{1$