Measures of Location and Spread

Median and Inter quartile Range

To identify the median put data in order and and choose middle item or halfway between middle 2 items. For n items $\frac{n+1}{2}$ can be used to identify the median. Ex S items $\frac{S+1}{2} = 3$ median = 3rd item 6 items $\frac{S+1}{2} = 3$. median is halfway between Bird and 4th items

Quartiles

Examples
Exi
$$\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{5}{5}, \frac{6}{6}$$

 $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{5}{5}, \frac{6}{6}$
 $Q_1 = 3.5$
 $Q_1 = 2$
 $Q_2 = 5$



Compare and contrast the two samples



having an IQR 23 almost truce as big as Sample Is' IQR of 12