Basic Descriptive Statistics

purpose: Resampling Stats and MATLAB have many basic statistics available.

examples: Here is a short data set:
>>   data = [1 2 3 4 50];
The arithmetic mean of the data:
>>   mean(data) ⇒ ans: 12
The median of the data:
>>   median(data) ⇒ ans: 3
The standard deviation:
>>   std(data) ⇒ ans: 21.27
The interquartile interval:
>>   iqr(data) ⇒ ans: 2
The smallest value in the data:
>>   min(data) ⇒ ans: 1
The largest value in the data:
>>   max(data) ⇒ ans: 50