```
In [4]: import numpy,math
   ...: from math import*
   ...: from numpy import*
   ...: ## load data and calculate average
   ...: values = array([1,2,3,4,5,6,7,8,9,10],float)
   ...: mean = sum(values)/len(values)
   ...: print(mean)
   ...: ##calculate mean square
   ...: rms = sqrt(sum(values**2)/len(values))
   ...: print(rms)
   ...: ## calculate geometric mean
   ...: logs = log(values)
   ...: geometric = exp(sum(logs)/len(logs))
   ...: print(geometric)
5.5
6.2048368229954285
4.5287286881167645

In [5]:
```