Outliers

The table shows data about the population and crime rate of some cities.

City	Population (100,000)	Crime rate (per 1000)
A	553	82
B	677	89
C	423	72
D	1202	42
E	122	60
F	431	75
G	670	84

1. Calculate the **mean**, **median**, **range**, **interquartile range**, and **sample standard deviation** for the above data.

2. City D is deleted from the dataset. Explain what effect this would have on:
   - The mean.
   - The median.
   - The range.
   - The interquartile range.
   - The sample standard deviation.
   - The correlation coefficient for Population and Crime Rate.