Drivers paid in a certain town 12 penalties in a week [EUR]:

320	1500	200	750	820	1000	900	400	4500

Evaluate by descriptive statistics, i.e.:

a. calculate mean, variance and standard deviation
b. calculate upper and lower quartile, interquartile range and median;
c. draw a box-and-whisker plot
d. divide the data into classes and make a histogram

pokuty
1320
1500
200
1750
820
1000
900
400
4500
3100
2500
120

| 3100 | 180 | 120 |

A sculptor has made during his lifetime 18 marble sculptures of the following heights (in meters):

6.6	7.8	6.9	12.3	7.4	8.2	7.4	11.5	6.8

Describe his work statistically, namely

  a. make a histogram and frequency polygon (data divide into four intervals);
  b. make a box-and-whisker plot;
  c. calculate: aritmetic mean, geometric mean, median;
  d. calculate: variance, standard deviation, variance range and quartile range;
  e. relative standard deviation (%);
  f. calculate quartiles and deciles; find also 22% quantile, and 99% quantile;

sculptures
    6.6
    7.8
    6.9
   12.3
    7.4
    8.2
    7.4
   11.5
    6.8
    7.2
    8.1
    7.3
   15.1
   10.8
    8.4
    1.1
    2.1
     3

| 7.2 | 8.1 | 7.3 | 15.1 | 10.8 | 8.4 | 1.1 | 2.1 | 3 |

find outlier with the method of inner fences!

No.	concentration of Pb [ng/ml]
1	37.9
2	22.8
3	13.4
4	31.6
5	50.8
6	20.2
7	9.5
8	26.7
9	76.1
10	22.0