

The following data were gathered for an analysis on Manganese in some engineering system. Read the data and answer the questions based on the data.

74 79 77 81  
 68 79 81 76  
 81 80 80 78  
 88 83 79 91  
 79 75 74 73

- Draw the stem and leaf diagram:

- Make a frequency table

Class	Interval Center	Tally	Frequency	Relative Frequency	Cumulative r.f

- Draw the Histogram of the data

- Calculate the quantiles

i	1	2	3	4	5	6	7	8	9	10
Data	68	73	74	74	75	76	77	78	79	79

$$\frac{i-0.5}{n}$$

Q(p)

$Q_N(p)$

i	11	12	13	14	15	16	17	18	19	20
Data	79	79	80	80	81	81	81	83	88	91

$$\frac{i-0.5}{n}$$

Q(p)

$Q_N(p)$

- Find the median, 1<sup>st</sup> quartile and 3<sup>rd</sup> quartile

- Find the Normal quantiles and add them to the quantile table above
- Plot the Normal quantiles vs. the data quantiles

- Draw the boxplot