Minitab Project Report for Homework #1
Total number of marks possible 14

(4 points) Exercise 2.4 p.24

Data Display

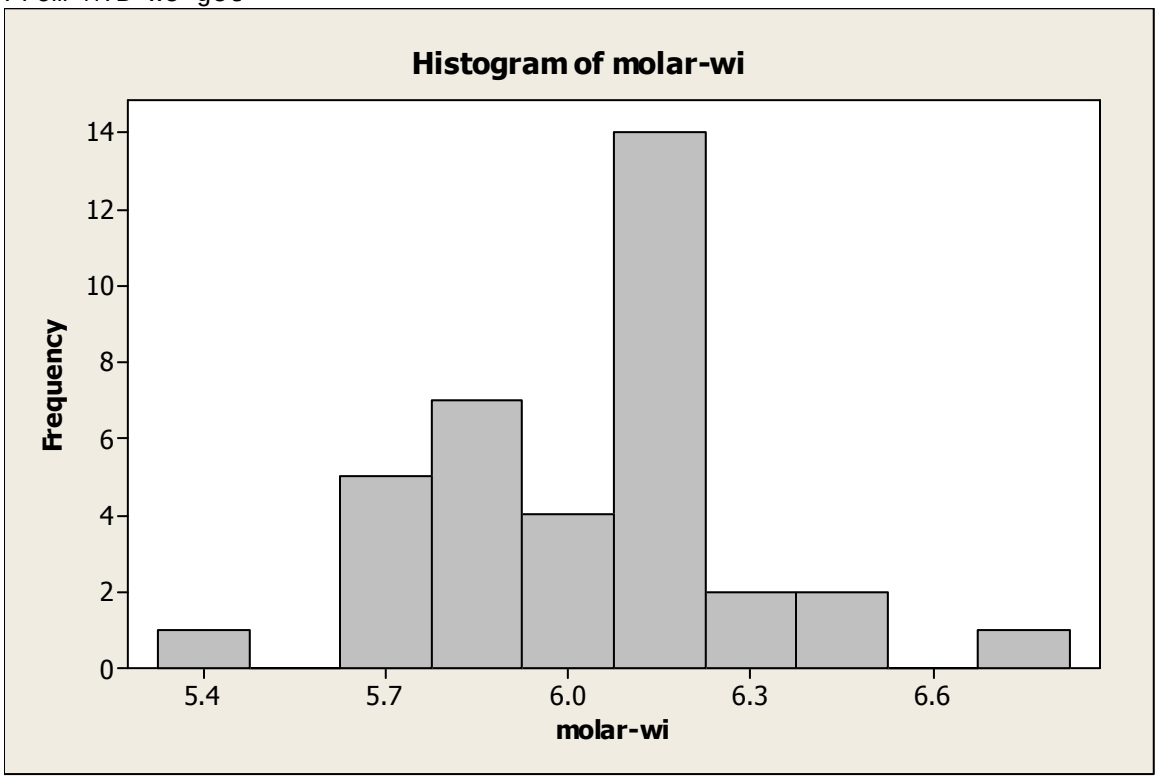
```
molar-wi
   6.10000   5.70000   6.00000   6.50000   6.00000   5.70000   6.10000
   5.80000   5.90000   6.10000   6.20000   6.00000   6.30000   6.20000
   6.10000   6.20000   6.00000   5.70000   6.20000   5.80000   5.70000
   6.30000   6.20000   5.70000   6.20000   6.10000   5.90000   6.50000
   5.40000   6.70000   5.90000   6.10000   5.90000   5.90000   6.10000
   6.10000
```

There is no one answer. Here is an answer
Frequency distribution

Molar width	frequency
5.4-5.55	1
5.6-5.7	5
5.8-5.9	7
6.0-6.1	12
6.2-6.3	8
6.4-6.5	2
6.6-6.7	1

N= 36

From MTB we get



b) The shape is somewhat skewed to the left.
Note that had we plotted the frequency distribution above, it would have been symmetric

(2 points) Exercise 2.24 p.31

There are 36 values and hence the median is the average of the 18th and 19th; i.e. (10+11)/2 = 10.5 piglets

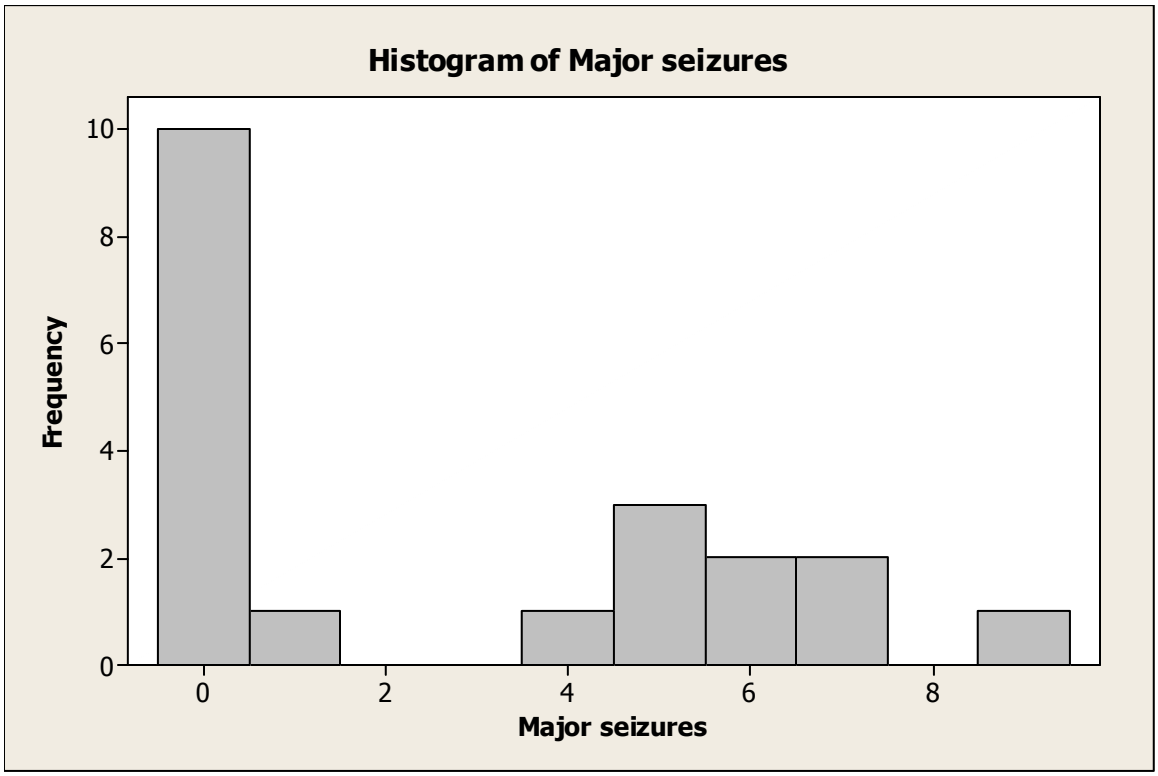
(2 points) Exercise 2.33 p.39

Using the commands from the graph menu: boxplot, multiple graphs we get

(4 points) Exercise 2.66 p.65

Descriptive Statistics: Major seizures

Variable	N	N*	Mean	StDev	Minimum	Q1	Median	Q3	Maximum
Major seizures	20	0	2.750	3.177	0.000	0.000	0.500	5.750	9.000

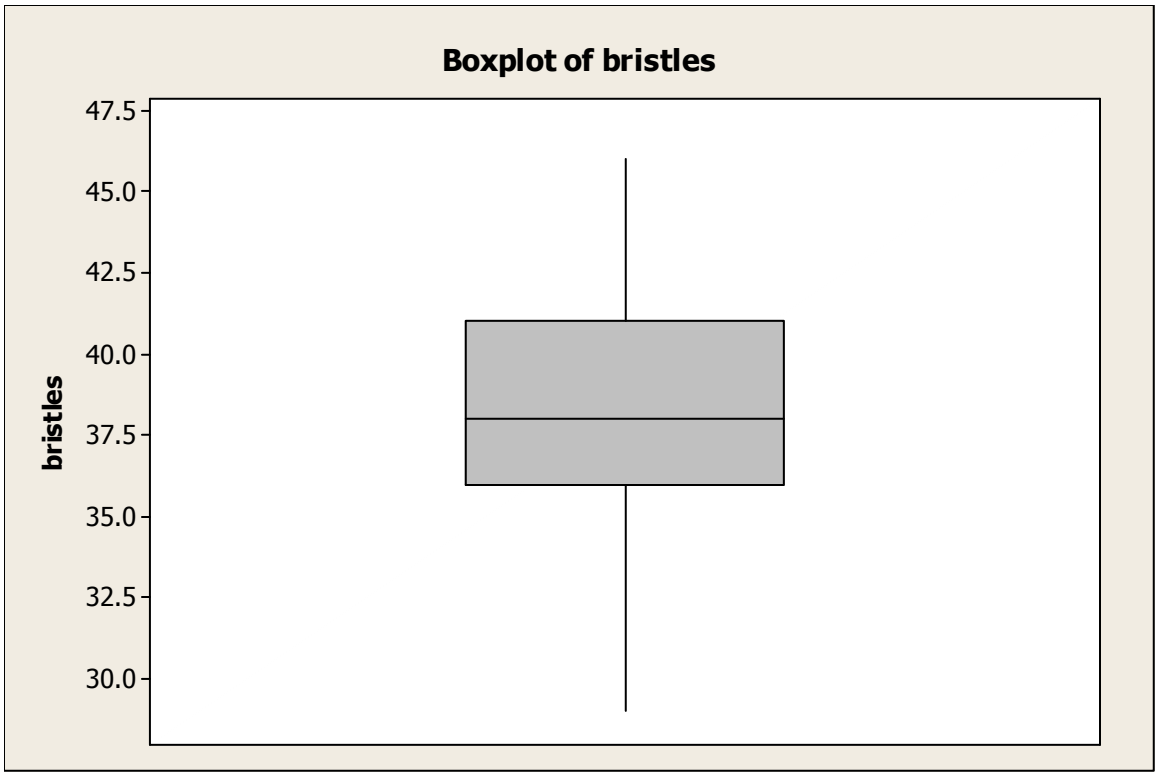


d) The distribution is strongly bimodal with no data near the mean

(2 points) Exercise 2.73 p.67

Descriptive Statistics: bristles

Variable	N	N*	Mean	StDev	Minimum	Q1	Median	Q3	Maximum
bristles	119	0	38.454	3.196	29.000	36.000	38.000	41.000	46.000



We need to count the number of observations that fall into the interval
(38.45 - 3.2, 38.45 + 3.2) i.e. (35.25, 41.65)

There are 79 out of 119 or 79/119 = 0.664; hence, 66.4%