

Assignment #7

Exercise 4.100

a. Stem-and Leaf

Stem-and-leaf of C1 N = 28
Leaf Unit = 0.10

2	1	16
3	2	1
7	3	1235
11	4	0356
(4)	5	0399
13	6	03457
8	7	34
6	8	2446
2	9	47

The data are somewhat mound shaped.
The data might be normally distributed.

b. Column Standard Deviation

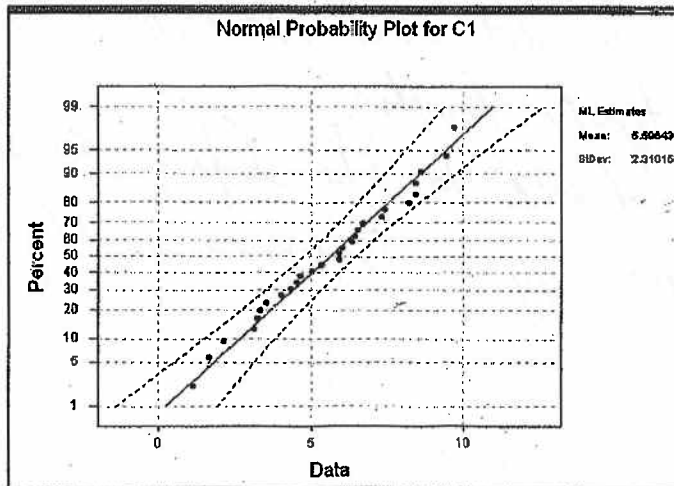
Standard deviation of C1 = 2.3525

Variable	Q1	Q3
C1	3.625	7.375

IQR/s \approx 1.59

This ratio is fairly close to 1.3. The data could be normally distributed.

d.



Again, it looks like the data could very well be normally distributed.

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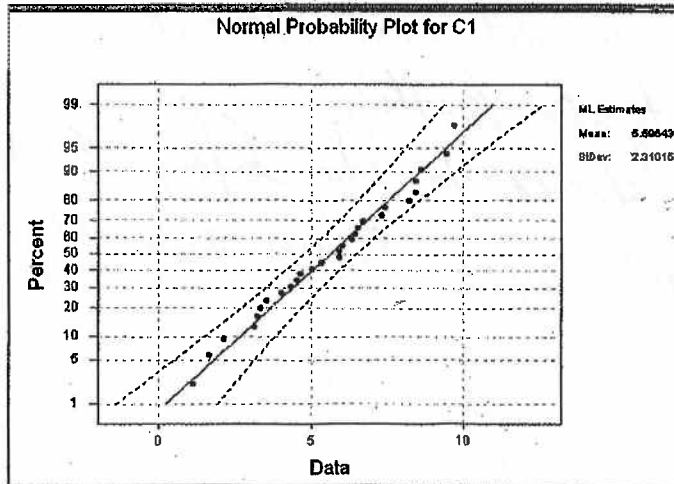
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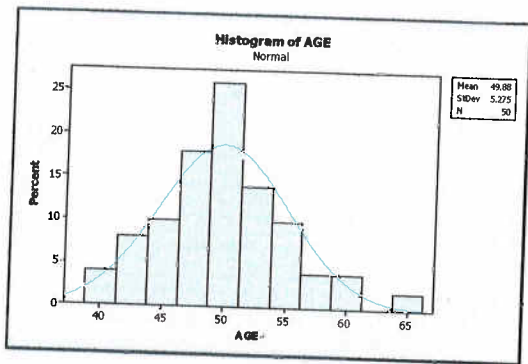
H.101

a) $IQR = Q_3 - Q_1 = 53 - 47 = 6$

b) $s = 5.275$

c) $\frac{IQR}{s} = \frac{6}{5.275} \approx 1.137$ (this is fairly close to 1.3)

d)



This graph is approximately mound-shaped and symmetric.

H.110 For this data set

$IQR = 98 - 93 = 5$
 $s = 4.825$
 $\Rightarrow \frac{IQR}{s} = \frac{5}{4.825} \approx 1.04$

This ratio is not real close to 1.3; so we investigate further.

The graph is skewed to the left; so the scores do not appear to be normally distributed.

