

Information Technology CS编程辅导

FIT1006 Business mation Analysis

WeChat: cstutorcs

Assignment Project Exam Help

Email: tutorcs@163.com

Lecture 5

Descriptive Statistics — Introduction to EXCEL and SYS/TUAPEs.com

Topics covered: 代写代做 CS编程辅导

Calculating descript

tics with EXCEL and SYSTAT.

Comparing groups

Visualising data

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Using appropriate statistics

Describing data

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Email: tutorcs@163.com

QQ: 749389476



Learning Objectives 做 CS编程辅导

- This lecture is abc to be well we characterise a data set using some summary still to be a set using
- A typical problem that could be answered with the techniques covered to the techniques covered



Motivating pfoblem... CS编程辅导

- A grocery store war analyse the amount spent by their customers. They altitude you the sales history of 10 randomly sampled customers.
- WeChat: cstutorcs
 Data is from the Kaggle 'Dunnhumby's Shopper Challenge' which recorded the argount appendiant date Helpe transaction at a supermarket in the US over one year.

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 - See: http://www.kaggle.com/c/dunnhumbychallenge
- I have resampled the original data, using approx 20% of the original observations.://tutorcs.com
- We will use the data for 10 groups of shoppers.



Motivating P括序作為 CS编程辅导

Working in group: Wusing the data for Customer 3 (showing in group) the data for Customer 3 (showing)

Draw a stem and leaf plot.

Calculate the wartiets using the quick method.

• Calculate Q1 Asingnment Project Exam Help

• Calculate a 10% trimmed means.com

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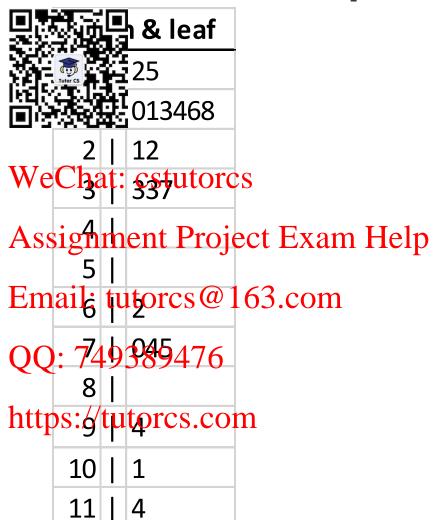
https://tutorcs.com

18
13
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74
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16
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114
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94
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33
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22

Sample Data^程Stem and 作時期ot

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33
10



https://flux.ga程序的GCS络线GV)

Question 1



For Customer 3日達性 the Quick Method, Q1 =

WeChat: cstutorcs A. 13.00 B 13.25 Assignment Project Exam Help (18) 39.13% B. 13.25 C. 13.50 Email: tutorcs@163.com (20) 43.48% D. 13.75 QQ: 749389**4** E. 14.00 https://tutorcs.com 22 33 70 10 11 13 14 16 18 21 33 37 62 74 75 94 101 114 $4 \times 5 = 20 --> n = 5$ **Q1 Q2 Q3**

A 13.00

https://flux.qa程序eeacode:多线像CV)

Question 2

For Customer 3

$$q = (n+1)\frac{Q}{4}$$
, Q1 =

					/)															
	2	5	10	11	13	14	-1 6	18	21	22	33	33	37	62	70	74	75	94	101	114
- 								Ch	at:	cst	uto	rcs								

A. 13.00

B. 13.25

C. 13.50

D. 13.75

E. 14.00

Assignment Project Exam Help q = (n+1) = q

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 $Q = x_q + r(x_{q+1} - x_q)$ When q is non-integer Q: 749389476

https://tutorcs.com $Q_1 \rightarrow 5^{\text{th}} \text{ value} + 0.25 (6^{\text{th}} \text{ value} - 5^{\text{th}} \text{ value})$ $Q_1 \rightarrow 13 + 0.25 (14 - 13) = 13.25$

https://flux.qa (样唇d \Sode: \$\$6 (\$\$6))

Question 3

For Customer 3, trimmed mean:



the mean, using the 10%

A. 30.15

B. 37.69

C. 39.39

D. 41.25

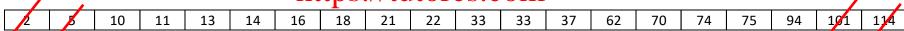
WeChat! cstutores

(5) 12.2%

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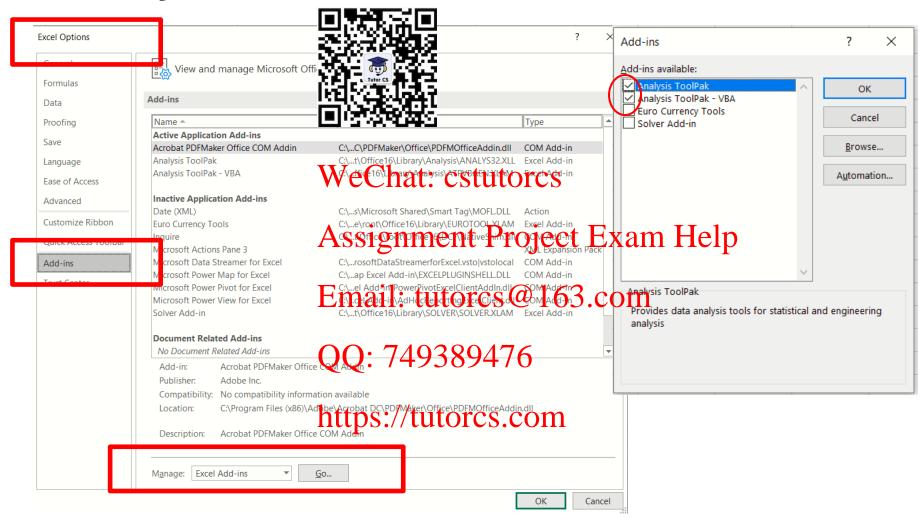
(7) 17.07%



10% trimmed mean: (10 + 11 + 13 + 14 + 16 + 18 + 21 + 22 + 33 + 33 + 37 + 62 + 70 + 74 + 75 + 94)/16 =37.69

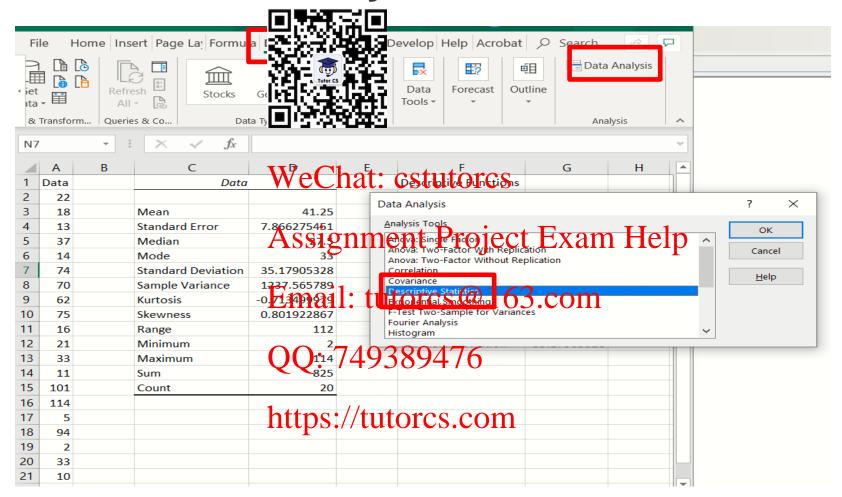
(24) 58.54%

Analysis Toofs⁵CEXCEL A 464-165





Data -> Data 格內的學的 CS编程辅导





Motivating Pfoblem代数等条件



Describe the different types of customers...




```
Stem and Leaf Plot of Variable
                                                         Stem and Leaf Plot of Variable: ID140(5), N = 32
Minimum
           : 2.000
                                                         Minimum
                                                                    : 1.000
Lower Hinge: 13.000
                                                         Lower Hinge: 15.500
Median
          : 17.000
                                                         Median
                                                                    : 54.000
Upper Hinge: 45.000
                                                         Upper Hinge: 77.500
Maximum
          : 63.000
                                                         Maximum
                                                                   : 114.000
                                                         Stem and Leaf Plot of Variable: ID148(6), N = 49
Stem and Leaf Plot of Variable:
Minimum
          : 5.000
                                                         Minimum
                                                                    : 1.000
Lower Hinge: 25.000
                                                         Lower Hinge: 6.000
                           WeChat: cstution : 9.000
Median
          : 57.500
Upper Hinge: 115.000
Maximum
        : 239.000
                                                         Maximum
                                                                   : 96.000
Stem and Leaf Plot of Variable: ID119(2), N = 21
                                                         Stem and Leaf Plot of Variable: ID149(7), N = 11
                           Assignment
Minimum
           : 2.000
Lower Hinge: 6.000
          : 20,000
                                                         Median
                                                                    : 36.000
Median
                                                         Upper Hinge: 54.000
Upper Hinge: 30.000
                                                                    : 77.000
Maximum
          : 55.000
Stem and Leaf Plot of Variable Final 2tutorc
                                                             and \text{Laf} Plot of Variable: ID168(8), N = 29
Minimum
           : 2.000
                                                         Minimum
                                                                    : 2.000
Lower Hinge: 13.500
                                                         Lower Hinge: 14.000
          : 27.500
                                                                    : 20.000
Median
                               Q: 7493894
Upper Hinge: 72.000
                                                         Upper Hinge : 30.000
         : 114.000
                                                                    : 141.000
Maximum
Stem and Leaf Plot of Variable: ID134(4), N = 66
                                                         Stem and Leaf Plot of Variable: ID177(9), N = 10
           : 0.000
Minimum
                          https://tutorcs
                                                                      49.000
Lower Hinge: 13.000
                                                                    : 63.000
          : 21.500
Upper Hinge: 39.000
                                                         Upper Hinge: 96.000
Maximum
          : 121.000
                                                         Maximum
                                                                    : 109.000
```



Or use Excel程序代写代做 CS编程辅导

Descriptive Statistic

				M-19 T						
	ID40(0)	ID79(1)		3(3)	ID134(4)	ID140(5)	ID148(6)	ID149(7)	ID168(8)	ID177(9)
Mean	28.85	80.9 0	20.14	41.25	27.38	51.94	14.18	37.27	27.41	76.60
Standard Error	6.14	23.60	3.32	7.87	2.81	6.16	2.21	7.38	5.02	6.60
Median	17.00	57.50	7 20:10Q	27.50	21.50	54.00	9.00	36.00	20.00	68.50
Mode	14.00	#N/A	20.60	al. _{33.00}			6.00	54.00	16.00	63.00
Standard Deviation	22.12	74.63	15.19	35.18	22.82	34.85	15.45	24.49	27.01	20.86
Sample Variance	489.47	5569.66	230,83	1237.57	1 520,76	1214.82	238.74	599,82	729.75	435.16
Kurtosis	-1.55	0.80	722183	11112	5.23		Xa _{16.00}		10.93	-1.08
Skewness	0.38	1.09	0.58	0.80	2.03	0.08	3.40	0.16	2.91	0.58
Range	61.00	234.0 <mark>0</mark>	53:00	112.00	121700	1 (11)3.00	95.00	73.00	139.00	60.00
Minimum	2.00	5.0 0	711162 <u>10</u> 6	. 1412.00	CS 6.00	1031:00	U 111 _{1.00}	4.00	2.00	49.00
Maximum	63.00	239.00	55.00	114.00	121.00	114.00	96.00	77.00	141.00	109.00
Sum	375.00	809.00	423.80	1 (825.00)	1807,8 0	1662.00	695.00	410.00	795.00	766.00
Count	13.00	10.00	21.00	ナフ _{20.80}	66.60	32.00	49.00	11.00	29.00	10.00



Or SYSTAT...程序代写代做 CS编程辅导

Summary Statistics

ı	ID	40(0)	ID79(1)	II Tutor CS	ing in	134(4) ID	0140(5)	ID148(6)	ID149(7)	ID168(8)	ID177(9)
N of Cases	1	13	10	21	20	66	32	49	11	29	10
Minimum	1	2.000	5.000	WeCh	ať:°cst	utorcs	1.000	1.000	4.000	2.000	49.000
Maximum	1	63.000	239.000	55.000	114.000	121.000	114.000	96.000	77.000	141.000	109.000
Median	1	17.000	57.500	A ^{20.000} g1	nment	Proie	ct Ex	am H	elp ^{36.000}	20.000	68.500
Arithmetic Mean	1	28.846	80.900	20.143	41.250	27.379	51.938	14.184	37.273		76.600
Standard Deviation	n	22.124	74.630	Email	: tutor	cs201	63.847 CC	m ^{15.451}	24.491	27.014	20.860
Method = CLEVELANI	(
1 of 4	1	11.500	25.000	00.7	493 89	476	15.500	5.750	17.500	14.000	63.000
2 of 4	1	17.000	57.500	20.000	27.500	21.500	54.000	9.000	36.000	20.000	68.500
3 of 4	1	47.250	115.000	https:/	//tutoro	cs.con	77.500	20.250	54.000	31.000	96.000



SYSTAT

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SYSTAT is a Windc
 download a free ver



https://systatsoftware.com/at: cstutorcs

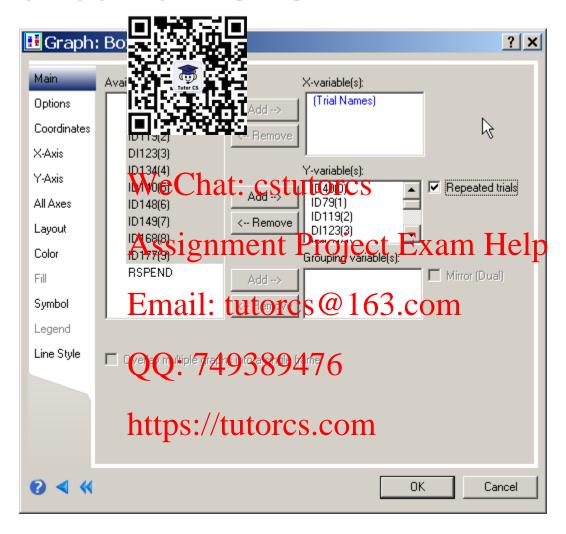
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 https://systatsoftware.com/products/systat/mystat-statistical-analysis-product-for-student-use/ Email: tutorcs@163.com

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Screenshot ffom SYSTA 编辑等



Making sense of the data...

How do we make see information?

What can we infer f

Descriptive statistics of the data

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- The distribution from stem and leaf plot

- The box plot, etc...gnment Project Exam Help

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https://flux.qa程序的是多级的(SS是是一个)

Question 4

From the boxploid state as the greater media:

we Chat: cstubers

A. ID79

B. ID123

C. ID140

D. ID177

E. None of the above.

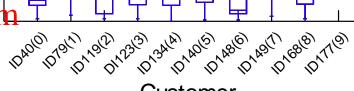


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Customer



https://flux.qa (棒色的气态像: 多角像)

Question 5

From the boxplot the most "inconsistent" customer? WeChat:

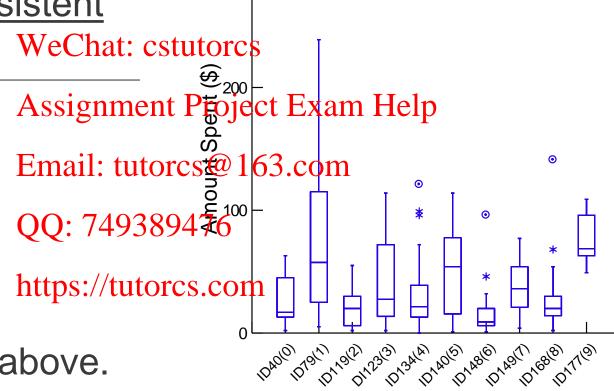
/ ID70

B. ID123

C. ID140

D. ID177

E. None of the above.



Customer

300 _

https://flux.qa程序的是多数的(SS)

Question 6

From the boxploid the best customer?

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A. ID79

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300 _

B. ID123

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C. ID140

D. ID177

https://tutorcs.com

E. None of the above.

Duolo Dialination di Characte

Customer

Measures of 琴序性写代做 CS编程辅导

- The <u>variance</u> we will verage of the squared deviations ad the squared of the mean.
- The standard deviation is the most well known. It is the square forther ariance.
- The range is largestnens Prairies Forms Hation.
- The interquartile riangers 253.com it contains the middle 50% of observations.

https://tutorcs.com

Let's have a look at the 'shape' of distribution...



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Question 7

The histogram set:



ដ្ត corresponds to which data

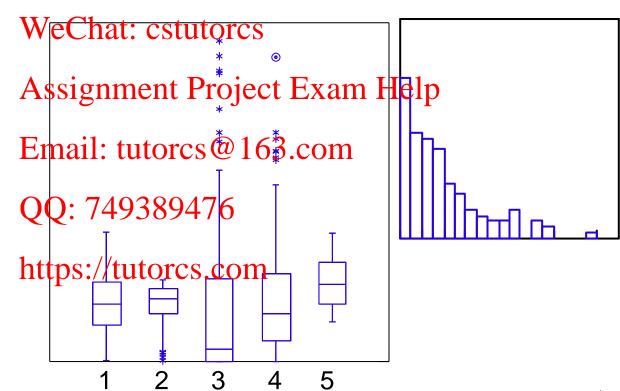


B. 2

C. 3

D. 4

E. 5



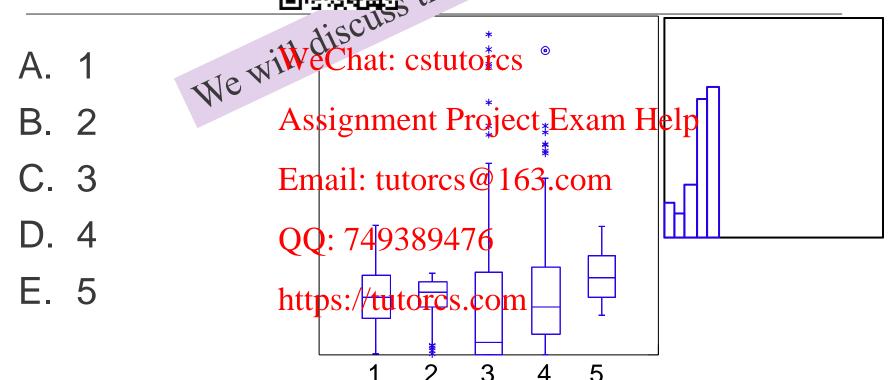
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https://flux.qa样序的多份的69.给好像

Question 8

The histogram







https://flux.qa样唇色看它的e:多好像

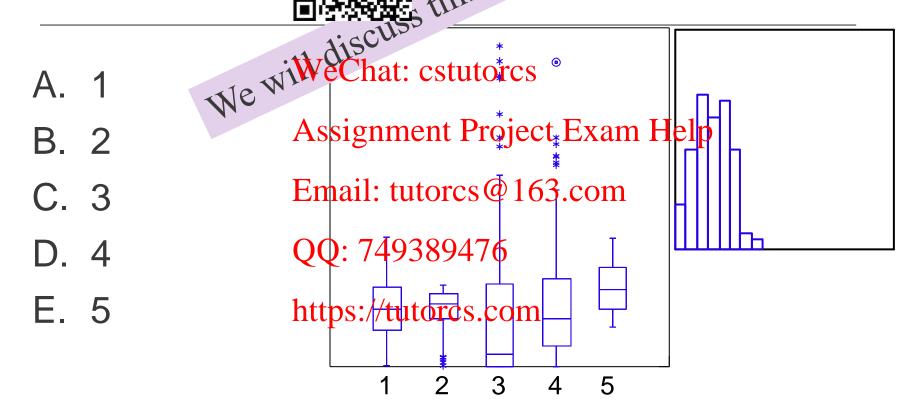
Question 9

The histogram

Tode: Stokes lecture

I this in tomorrow's lecture

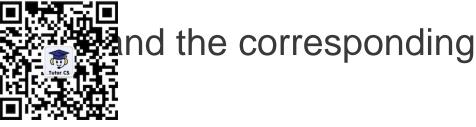
this in tomorrow to which data set:

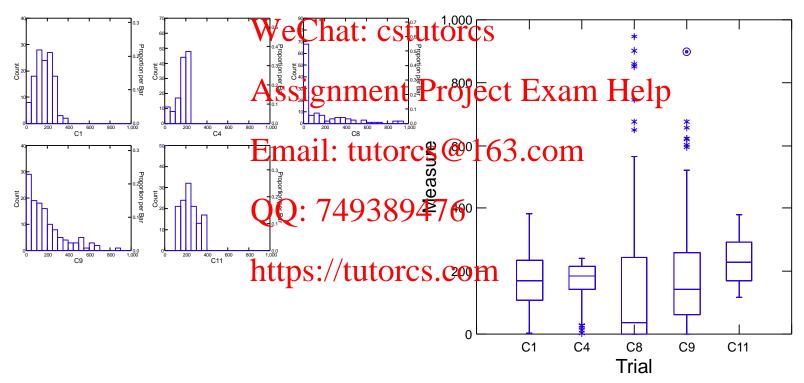




Distribution 等的有力是在的 Box的 ot

Here's 5 distribiteboxplots

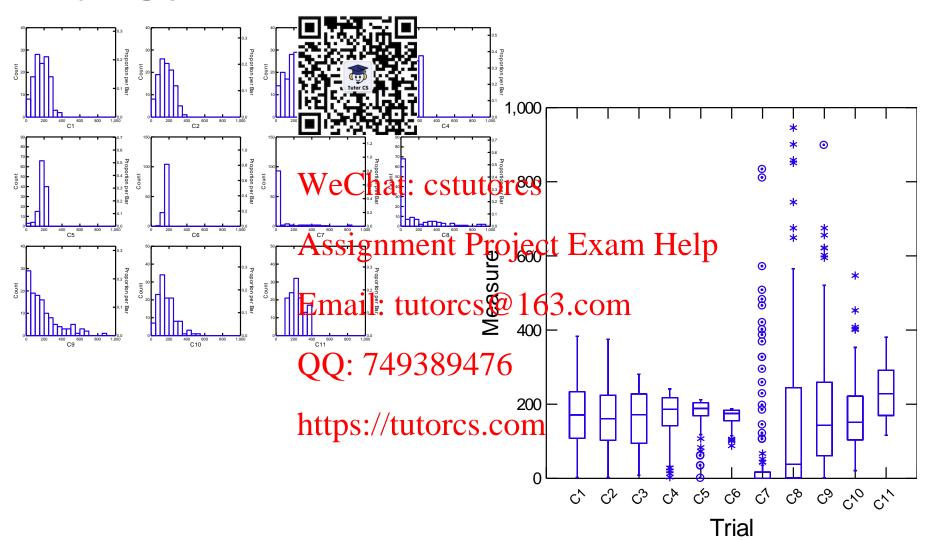






Full Set

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Key Ideas

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- You should be at
- Calculate the basis stive statistics using Excel and SYSTAT;
- Plot histograms and boxplots of data, including several groups of data on a single plottering SYSTAT

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Reading/Questions代做 CS编程辅导

- Reading: Graph merical Descriptive Methods
 - 7th Ed. Se**e!: 1.24**, 3.1, 4.1, 4.4, 5.1 5.3.

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- Questions: Graphical humprical Pescriptive Methods
 - 7th Ed. 5.17.541, 545.54651673.570

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Tutorial 3 Questions

