Assignment	2, 10	00,	Solutions	<u> </u>		
Question 1)	See	The	Solution	Manual	Ex.	5.8
Question a)	h	4	ч	4	6	5.14
Question 3)						8.10
Question H)					9	10.18
•					u	10.24
Question 5)	<i>-</i> 5					10.30
Question 6)	n	и	h	n	<i>s</i>	
Questin 7)						
a The new	n stud	y is	more (onvincing	Smle	they ran
a randomiz	ed (Compill	tive exp	riment.	lence	all

Since the Subject were NOT assigned randomly to ——— treatments. Hence there are many lunking Confording variables
treatments. Hence there are many lunking Confording variables
that we did not control in this study.
C) An example of confounding variable can be age of
subjects Gender of Subjects Smoking status of
Subject and
To control the effect of these lurking variable,
we have to randomly assign subjects into to groups.

Question 9

- This study is NOT anonymous. Since the exprimenter (the professor) see / identify the student even he/she does not state directly their name.
- b) The study is NOT Confidential. Since the professor and other students observe the responses.

values may change from one measurment to

another measurment. Hence New comb replicated the

expriment 66 times. The variability of the average

will be smaller than the variability of a
Single measurment. Hence the result of the average
will be more reliable.
Question 11)
a Yes, the instrument is unbiased since there is either
No systematic deviations towards lower values (than 16)
and higher values (then 16) true value).
we observed values in both directions.
6) No, the instrument is NOT reliable.
The measured values vary dramatically from one

trial to another trail. The variability is huge Hence, the instrument is unreliable.

Question 12) 7 = town, 80 = in-state

0 |-7| =87|

of students are NOT from the town where the school is located.

of students are from outside the state

(C

\rightarrow town (7)
outside (13)
in-state
(801)