10-6: how do I identify the population and sample in a sample survey?

Please read (or re-read) p. 207 @ 4.1 through the example at the top of p. 208.

So

Random Table

Sampling bias – leaning toward one side of an issue

Randomization reduces sampling bias.

9, 10, 9, 8, 4.5, 9, 10, 10, 6, 9,

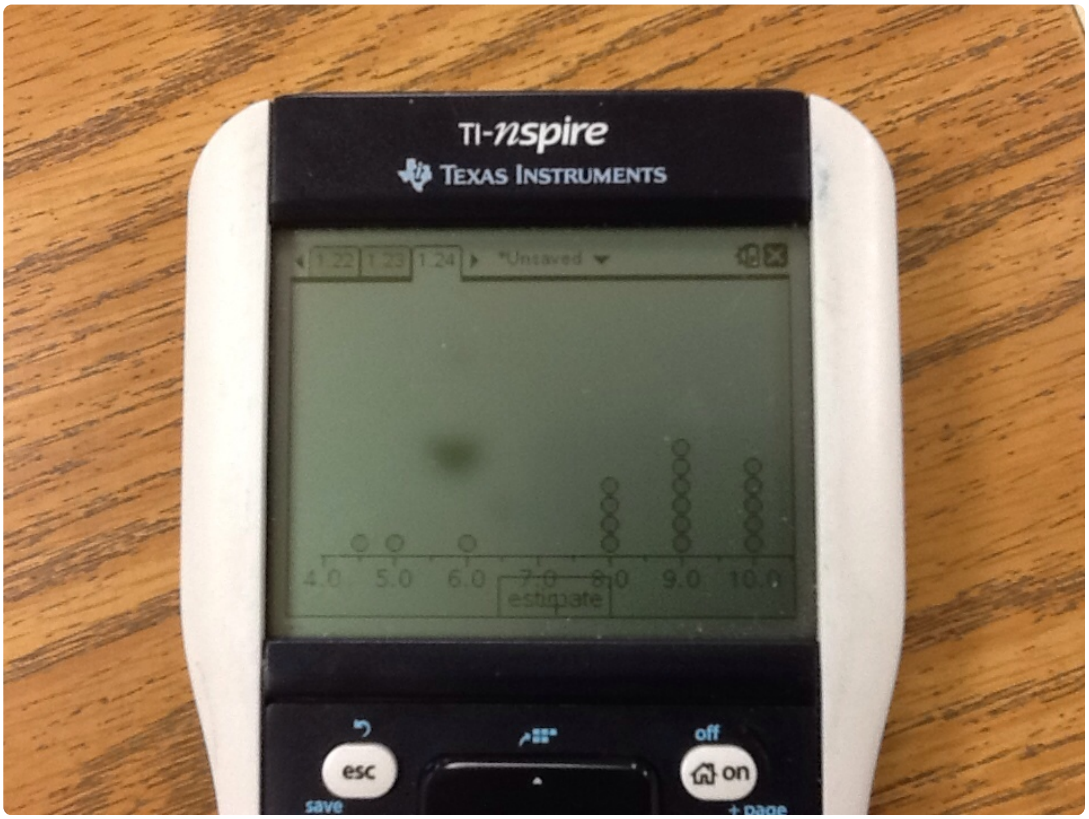
8, 5, 8, 9, 10, 8, 9, 10

9.2, 12.4, 9.6, 8, 9, 10.2, 6,
8.2, 6.6, 10.4, 8, 6, 8.2, 15,
9.6, 8.2, 7, 6

01
02
⋮
19

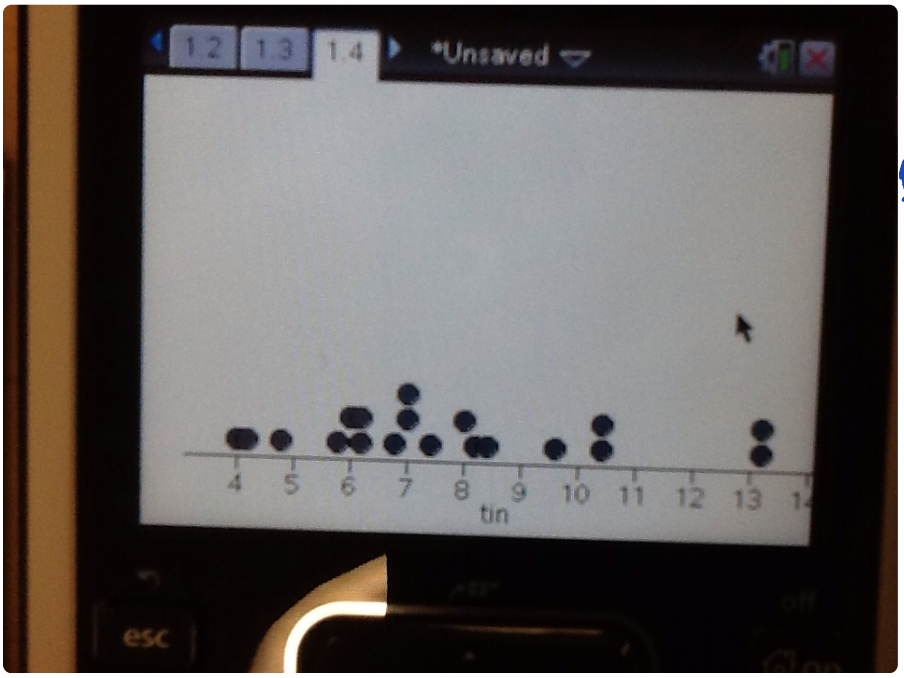
38167 98532

38 16 79 85 32


TI-nspire
Texas Instruments
1.22
1.23
1.24
*Unsaved
4.0
5.0
6.0
7.0
8.0
9.0
10.0
estimate
esc
save
off
on

b. Do either of the plots have a center that is larger than the true average?

c. Discuss the concept of bias in sampling and how it relates to the two sampling methods, subjective and random, you just used.



Random

5 of your choice

Guess of area

$\bar{x} = 8.7$