

HW p. 341 + p 349

⑩ Begin at Line 131, reading two-digit numbers:

0507 1632 8194 1473 0497

05 Beach Castle }
19 Sea Castle } The three randomly chosen resorts.
04 Banyan Tree }

⑪ Assign digits 01 to 30 to the students (in alphabetical order).
Begin at Line 123, reading two-digit numbers:

54580 81507 27102 56027 55892 33063

08 Ghosh }
15 Jones } The four randomly chosen students.
07 Fisher }
27 Shaw }

Continue with line 123. Assign digits 0 to 9 to students.
Read single-digit numbers:

Line 123 102 56027 1 Besicovitch
0 Andrews

* If you assign 00 to 09 then read two-digit numbers:

Line 123 102 56027 55892 33063 41842 81868

Line 124 71035 09001 03 Fernandez
01 Andrews

*** Can't assign digits 1 to 10 !!

⑫ Largest amounts (over \$50,000) you're taking them all (fold in problem.)

Label Midsize accounts 001 to 500.

Label Small accounts 0001 to 4400.

Begin reading Line 115, selecting midsize accounts first.
Read three-digit numbers.

61041 77684 94322 24709 73698

$\left. \begin{array}{l} 417 \\ 494 \\ 322 \\ 247 \\ 097 \end{array} \right\}$ The five randomly selected midsize accounts.

Continue reading Line 115, selecting small accounts.
Read four-digit numbers.

3698 14526 31893 32592

Line 116 14459 26056 31424 80371 65703

$\left. \begin{array}{l} 3698 \\ 1452 \\ 2605 \\ 2480 \\ 3716 \end{array} \right\}$ The five randomly selected small accounts.

⑬ a) This is a stratified sampling method.

b) Label each area code 01 to 25 (from left to right on table).
Begin reading line 111, reading two-digit numbers.

Line 111 81486 69489 60513 09297 00412 71238 27649 39950

Line 112 59036 88804 04634 71197 19352 73089 84598 45785

Line 113 62568 70206 40325 03699 71080 22553 11486 11776

Line 114 45149

Digits	Area Code
12	559
04	209
11	805
19	562
02	707
06	925
08	650
25	619
17	626
14	661

The ten randomly selected area codes.

(14) a) This is cluster sampling.

b) Label each block from 01 to 65. Begin at line 142, reading two-digit numbers

Line 142 72829 50232 97892 63408 77919 44575

02

32

26

34

08

The five randomly selected blocks.

(21) a) The individuals are adults, presumably those who can vote, in the country.

b) Employed adult women who are members of the local business and professional women's clubs are the individuals in this study.

c) The individuals are households in the US.

23) Label the containers using digits 01 to 25 (from left to right). Begin on Line 111, reading two-digit numbers:

Line 111 81486 69487 60513 09297 00412 71238 27649 39950
 Line 112 59636 88804 04634 71197

12 → B0986
 04 → A1101
 11 → A2220 } The three randomly selected containers

25) Label blocks using digits 01 to 44 (using numerical order of four-digits already assigned to blocks*). Begin on line 125, reading two-digit numbers:

Line 125 96749 12149 37823 71868 18442 35119

digit Block#
 21 → 3002
 37 → 3018
 18 → 2011
 44 → 3025
 23 → 3004 } The five randomly chosen blocks

* Group 1: 1000 1001 1002 1003 1004 1005
 Group 2: 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011
 Group 3: 3000 3001 3002 3003 3004 3005 3006 3007 3008 3009 3010 3011 3012
 3013 3014 3015 3016 3017 3018 3019 3020 3021 3022 3023 3024 3025

27) Not a SRS. NOT all samples of size "n" have a chance of being selected. One out of ten means all samples of size 250 can be selected. There is no way to select a sample of 250 women.

28) a) Question is clear, but slanted to elicit responses against gun control.

b) Question is phrased to make people respond in favor of a nuclear freeze.

30) The chance of being interviewed is $\frac{3}{30}$ if you are over age 21 and $\frac{2}{20}$ if you are under age 21. This is $\frac{1}{10}$ for both age groups.

However this is not a SRS. Not all samples of size "n" have an equal chance of being selected. Groups of 5 students in which all are over 21 have no chance of being interviewed.