8.28) First we label the 341 area codes. Since the largest number (namely 341) has three digits, every label should be a three digit number. Thus, we get: 001, 002, 003, ..., 341. Now we go to Table B, starting at line 129 we group the digits in this line as three digit numbers:

367, 595, 898, 968, 288, 229, 131, 863, 854, 303, 007, 950, 872

Thus, the randomly selected area codes have the following labels:

288, 229, 131, 303, 007. Note that none of the other three digit numbers in this row were elements of our set 001, 002, ..., 341.

8.33) a. Population = adult members of residential households.

b. Since the sample size is 2000 and of these 831 responded, we can conclude that 2000 - 831 = 1169 people did not respond. This is \( \frac{1169}{2000} = 0.5845 = 58.45\% \) of the sample.

c. Since the survey question is unbiased, the only source of error could be a false response.

8.34) The problem w/ the online poll, which reported 97%, is that it represents a voluntary response. A voluntary response is not random, it is highly biased, and has no scientific validity.

8.40) In this problem there are four categories: alluvial climax forests of quality levels 1, 2, and 3, and mature secondary forest. We need to choose an SRS within each strata.

a. Category 1: Climax 1; population size = 36; sample size = 4

First, label all the population elements: 01, 02, 03, ..., 36

Second, we go to Row 102 of Table B and group the digits there as two digit numbers:

73, 67, 64, 71, 50, 99, 40, 00, 19, 27, 27, 75, 54, 42, 64, 88, 42, 53, 02, 90, 45, 46, 77, 17, 09

Note that we ran out of numbers in Row 102, we continued in Row 103.
Thus, the 4 randomly selected parcels for this strata are: 19, 27, 17, 09.

b. Category 2: Climax 2; population size = 72; sample size = 7.

01, 02, 03, \ldots, 72  \hspace{1cm} \text{(labels for population members)}

\textbf{Table B, Row 104:}

52, 71, 13, 88, 89, 93, 07, 46, 02, 27, 40, 01, 18, 58, 48

Thus, the 7 randomly selected parcels for this strata are: 52, 71, 13, 07, 46, 02, 27.

c. Category 3: Climax 3; population size = 31; sample size 3.

01, 02, 03, \ldots, 31  \hspace{1cm} \text{(labels for population members)}

\textbf{Table B, Row 105:}

95, 59, 29, 40, 07, 69, 97, 19

Thus, the 3 randomly selected parcels for this strata are: 29, 07, 19.

d. Category 4: Secondary; population size = 42; sample size = 4.

01, 02, 03, \ldots, 42  \hspace{1cm} \text{(labels for population members)}

\textbf{Table B, Row 106:}

68, 41, 73, 50, 13, 15, 52, 97, 27

Thus, the 4 randomly selected parcels for this strata are 41, 13, 15, 27.