```
*********************
1
2
      LESSON 5, PRACTICE 3
3
        a) Highlight the first TITLE statement and PROC FREO *;
4
   *
           step, run the selected code, and examine the
5
           generated plot. The program subsets the
6
           PG1.NP CODELOOKUP table for three park types:
7
           National Historic Site, National Monument, and
8
           National Park. The plot uses a stacked layout
9
           with a horizontal orientation.
10
        b) To create a more customized frequency bar chart,
11
           the SGPLOT procedure can be used with the
12
           pg1.np codelookup table. Examine the PROC SGPLOT
13
           step in the demo program.
14
           1) The HBAR statement creates a horizontal bar
15
              chart with separate bars for each Region. The
16
              GROUP= option segments each bar by the
17
              distinct values of Type.
18
           2) The KEYLEGEND statement customizes the
19
              appearance and position of the legend.
20
           3) The XAXIS statement adds reference lines on
21
              the horizontal axis.
22
        c) Use SAS Help or autocomplete prompts to look for
23
           additional options in the HBAR statement to
24
           customize the appearance of the chart.
25
           1) Display labels on each segment of the bars.
26
           2) Change the fill attributes for each bar to
27
              make the color 50% transparent.
28
           3) Apply different values for the DATASKIN option *;
29
30
              to change the color effect on the bars.
   ********************
31
32
33
  title1 'Counts of Selected Park Types by Park Region';
34
   ods graphics on:
35
   proc freq data=pg1.np codelookup order=freq;
36
       tables Type*Region / crosslist plots=freqplot(twoway=stacked orient=horizontal);
37
       where type in ('National Historic Site', 'National Monument', 'National Park');
38
   run;
39
40
   /*part b*/
41
   title1 'Counts of Selected Park Types by Park Region';
42
   proc sgplot data=pg1.np_codelookup;
43
       where Type in ('National Historic Site', 'National Monument', 'National Park');
44
       hbar region / group=type;
45
       keylegend / opaque across=1 position=bottomright location=inside;
46
       xaxis grid;
47
   run;
48
49
   title1 "Categories of Reported Species";
50
   proc freq data=pg1.np species order=freq;
51
       tables Category /nocum;
52
   run;
```