



## Exercise

### 1. Plotting Chi-Square Random Numbers

- a. Create a data table with 1000 random deviates from a chi-square distribution with 20 degrees of freedom and a seed of 123.
- b. Use PROC SGPLOT to plot a histogram of the data.
  - 1) Alter the appearance of the plot by setting the BINWIDTH= option to 1.
  - 2) Add both a normal and kernel density estimate.
  - 3) Add the title 'My Random Chi-Square Distribution'.
  - 4) Add the X-axis title 'Random Chi-Square Deviates'.
  - 5) Use X-axis limits of 5 and 40.
  - 6) Request the frequency instead of the percent by providing the option SCALE=COUNT in the HISTOGRAM statement.

