



Winner's Avg. Speed at the Indy 500 by Year

Display 4.14

3. Display 4.15 lists the mean 2004 math SAT score for each state and the District of Columbia as reported by the *College Board*. Also in each listing is the percent of high school graduates who took the test.
 - (a) Using the scattergram of this data provided by your teacher, label each dot with the two letter postal code for the state.
 - (b) Examine your plot for trends. The states should appear to form two clusters (groups). Describe the features of each group.
 - (c) In general, as the percentage of students taking the SAT increases, what happens to the mean math score?
 - (d) Since there appear to be two distinct clusters, how would you answer the previous question for each cluster?
 - (e) Tiffany, who lives in Iowa, claims that students from Iowa are the best math students in the country, based on their SAT scores. Do you agree with her? Why or why not? Explain.
 - (f) How does your state compare with the other states? Do you think your state is doing well or poorly? Explain.
 - (g) Do you notice any differences among the various regions of the country? Explain.