

The attached table shows the Indianapolis 500 Automobile Race winners and their average speed for the past 36 years. We want to explore these data to see if it is possible to predict the average speed for the winner of next year's race (providing nothing unusual happens, which is a big "If.") If additional data are available, then augment the table and work with the larger data set.

Task. Your assignment is to do whatever you need to investigate this data set and then write a brief article for the newspaper describing your findings and conclusions. Be sure to include in your article: a statement of the problem, the data, and any plots or graphs you construct. Be sure to discuss patterns and trends but also be sure to explain any deviations to the patterns. As part of the assignment, the sports editor wants you to predict Kenny Brack's speed and also what the speed would be for the next Indy 500 winner in May.

Mode. You may work on this assignment individually, or you may work with one partner (not more than one) in the class.

Report. Try to keep graphs and your commentaries about these graphs together on the same page, if possible, so the reader won't have to flip back and forth when reading your report. If you worked with a partner on this Special Problem, then both must contribute equally, and both names must appear on the article. When you write your article, assume that your readers will be reasonably intelligent, but they may not be as statistically literate as you. If you use any technical terms, you may want to briefly explain these terms as part of your story.

Grading. The score awarded for this Special Problem will depend on the quality of your analyses, the clarity of your explanations, the appropriateness of your conclusions, and whether you adhered to the general guidelines for Special Problems.

Deadline: This Special Problem is due no later than _____ .

Table SP3C. Indianapolis 500 Automobile Race Winners

Year	Driver	Average Speed (MPH)
1967	A. J. Foyt	151.207
1968	Bobby Unser	152.882
1969	Mario Andretti	156.867
1970	Al Unser	155.749
1971	Al Unser	157.735
1972	Mark Donohue	162.962
1973	Gordon Johncock	159.036
1974	Johnny Rutherford	158.589
1975	Bobby Unser	149.213
1976	Johnny Rutherford	148.725
1977	A. J. Foyt	161.331
1978	Al Unser	161.363
1979	Rick Mears	158.899
1980	Johnny Rutherford	142.862
1981	Bobby Unser	139.085
1982	Gordon Johncock	162.026
1983	Tom Sneva	162.117
1984	Rick Mears	163.621
1985	Danny Sullivan	152.982
1986	Bobby Rahal	170.772
1987	Al Unser	162.175
1988	Rick Mears	144.809
1989	Emerson Fittipaldi	167.581
1990	Emerson Fittipaldi	167.581
1991	Rick Mears	176.457
1992	Al Unser, Jr.	134.477
1993	Emerson Fittipaldi	157.207
1994	Al Unser, Jr.	160.872
1995	Jacques Villeneuve	153.616
1996	Buddy Lazier	147.956
1997	Arie Luyendyk	145.827
1998	Eddie Cheever, Jr.	145.155
1999	Kenny Brack	---
2000	Juan Montoya	167.607
2001	Helio Castroneves	141.574
2002	Helio Castroneves	166.499