

Special Problem 3D

The Olympic Men's Long Jump

The modern Olympic Games are a modified revival of the Greek Olympian Games that came to be largely through the efforts of the French sportsman and educator Baron Pierre de Coubertin. The Games are an international athletic competition that has been held at a different site every four years since their inauguration in 1896, with occasional interruptions in the times of world wars.

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 the gold medal long jump in 1940 (what it would have been) and in next Olympic Games.

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. Special Problem 3D is due on _____.

The data for the gold medal performances in long jump are given below (in inches). Year is coded to be zero in 1896.

Year	Long Jump
1896	249.75
1900	282.875
1904	289
1908	294.5
1912	299.25
1920	281.5
1924	293.125
1928	304.75
1932	300.75
1936	317.3125
1948	308
1952	298
1956	308.25
1960	319.75
1964	317.75
1968	350.5
1972	324.5
1976	328.5
1980	336.25
1984	336.25
1988	343.25
1992	342.5
1996	334.64
2000	336.61
2004	338.2
2008	328.35