

## Special Problem 3H

## Is Wine Good for your Heart?

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The data collected gives on average per capita consumption of wine and heart disease death rates in 19 countries. Is the consumption of wine better or worse for heart disease?

**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 education editor wants you to predict the heart death rate for consuming 1 liter of wine on average per year and the heart death rate for consuming 12 liters of wine on average per year.

**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 3H is due on \_\_\_\_\_.

Country	Alcohol from Wine (liters/year)	Heart Disease Death Rate (per 100,000)
Australia	2.5	211
Austria	3.9	167
Belgium/Luxembourg	2.9	131
Canada	2.4	191
Denmark	2.9	220
Finland	0.8	297
France	9.1	71
Germany	2.7	172
Iceland	0.8	211
Ireland	0.7	300
Italy	7.9	107
Netherlands	1.8	167
New Zealand	1.9	266
Norway	0.8	227
Spain	6.5	86
Sweden	1.6	207
Switzerland	5.8	115
United Kingdom	1.3	285
United States	1.2	199