

Reading

Gardner, Martin, "Mathematical Games" columns in *Scientific American*, 1956-1986
Martin Gardner also wrote a series of 15 books that included and expanded upon the magazine articles. The books are excellent sources for applications of data and chance. We used a number of topics from his books as examples in the class. The entire series of books is available on a CD from the Mathematical Association of America (<http://www.maa.org>).

Grinstead, Charles, *Introduction to Probability*, a free electronic version is available at http://www.Dartmouth.edu/~chance/teaching_aids/books_articles/probability_book/amsbook.mac.pdf

This is a college level text that has very good examples and exercises to go along with the rigorous underlying mathematics.

Huff, Darrell, *How to Lie with Statistics*, WW Norton, 1993

This dated, but very readable book covers some common misuses of data. We read several of the chapters in this book.

Moore, David, *Statistics Concepts and Controversies*, WH Freeman, 2001

This is an introductory statistics text for liberal arts college students. Some of the exercises came from this book.

Paulos, John Allen, *Innumeracy*, Hill and Wang, 1988

Paulos, John Allen, *A Mathematician Reads the Newspaper*, Anchor Books 1995

In these two books, a respected mathematician and author writes about mathematics in everyday life, and the public's conceptions and misconceptions about it. Some of our readings and topics came from these books.

Saari, Donald, *Chaotic Elections!*, American Mathematical Society, 2001

This book surveys the mathematics of voting (although very readable it is aimed at undergraduate level and higher). We discussed some of the issues raised in this book.

Schaeffer, Richard, et al., *Activity-based Statistics*, Key College Publishing, 2004

This book contains supplementary activities for introductory statistics at the college or AP Statistics/high school level. We did a number of the activities from this book in our class.

Tufte, Edward, *The Visual Display of Quantitative Information*, Graphics Press, 2001

This book talks about the design of graphics displaying data. We saw examples from it that showed how data is misrepresented.

Vos Savant, Marilyn, *The Power of Logical Thinking*, St. Martins Press, 1996

This book, written by a well-known syndicated columnist, provides examples of applications of mathematics to daily life, points out misuses of data and chance, and attempts to clear up misconceptions. We read a number of excerpts from this book.

Watkins, Ann et al., *Statistics In Action*, Key Curriculum Press, 2004

This is an introductory statistics text suitable for college level or AP Statistics at the high school level. Some activities were taken from this book.

US Government, <http://www.census.gov/statab/www/>

Every year the US government publishes a wealth of information about the U.S. This site contains a downloadable document of this year's data along with an archive of previous years data.