

## Appendix L: Data Sets in Printed Form

### 60 Students

Student	Gender	Pol Party	GPA	Career Aim	Hrs Work/Wk	Hrs Vol/Wk
1	M	Dem	3.2	Education	6	4
2	M	Dem	3.9	Engineering	5	4
3	F	Rep	3.1	Hospitality	3	0
4	F	Ind	2.9	Education	10	6
5	F	none	1.8	Counseling	14	6
6	F	Ind	2.5	Medicine	16	5
7	M	Rep	3.2	Law	4	2
8	M	Rep	2.6	Education	20	0
9	F	Rep	2.8	Prog/Tech	22	0
10	M	Rep	3.4	Education	12	0
11	M	Dem	3.1	Accounting	0	6
12	F	none	3.9	Business	16	4
13	F	Dem	2.0	Retail	10	3
14	F	Dem	2.4	Science	14	2
15	F	Dem	2.3	Education	8	0
16	M	Ind	2.2	Business	10	2
17	M	none	3.9	Engineering	6	0
18	F	Ind	3.2	undecided	2	8
19	M	Dem	3.1	Education	16	4
20	M	Rep	2.2	Education	24	0
21	M	Dem	1.9	Other	40	0
22	F	Rep	0.8	Medicine	0	0
23	M	Rep	2.1	Journalism	14	8
24	M	Rep	4.0	Law	14	6
25	F	Rep	3.6	Education	12	4
26	F	Dem	2.9	Retail	10	0
27	F	Ind	2.7	Counseling	11	2
28	F	Dem	3.0	Accounting	15	0
29	F	Dem	2.6	Engineering	16	0
30	M	Dem	3.1	Engineering	22	0
31	M	Dem	2.4	Education	20	2
32	F	Ind	2.6	Retail	24	2
33	M	Dem	2.9	Prog/Tech	22	0
34	M	Rep	3.6	Business	26	0
35	F	Rep	3.5	Medicine	30	0
36	F	Dem	2.5	undecided	32	0
37	M	Dem	3.5	Art/Music	14	0
38	F	Ind	3.8	Law	16	4
39	M	Ind	4.0	Journalism	14	4
40	F	Ind	2.7	Retail	22	0
41	F	Dem	2.9	Accounting	26	2

42	M	Dem	2.4	other	12	6
43	M	Rep	3.1	Art/Music	0	6
44	M	Rep	3.5	other	6	2
45	M	Dem	2.5	undecided	8	4
46	M	Rep	3.1	Education	22	2
47	F	Rep	3.2	Education	28	3
48	F	Rep	2.7	Engineering	8	8
49	F	Dem	2.8	Medicine	32	2
50	M	Dem	2.1	Art/Music	10	4
51	F	Rep	1.9	Prob/tech	16	0
52	F	Dem	1.9	Business	12	0
53	F	Rep	2.0	Hospitality	20	2
54	F	Dem	3.6	Architecture	20	0
55	M	Dem	2.9	Education	18	0
56	M	Ind	3.2	Accounting	8	2
57	F	none	2.9	Law	12	2
58	F	Ind	2.6	Medicine	20	0
59	M	Rep	2.6	Education	24	0
60	F	Rep	3.5	Law	16	0

## World Statistics

Countries	Land Area	Population in millions (in 2000)
Russia	17,075	145
Canada	9971	
China + Taiwan	9567	1275
United States	9364	285
Brazil	8547	171
Australia	7741	
india	3288	
Argentina	2780	
Kazakhstan	2717	
Sudan	2506	
Saudi Arabia	2150	
Mexico	1958	98
Iran	1633	61
Mongolia	1567	
Peru	1285	
Colombia	1139	
Pakistan	796	134
France	552	58
Thailand	513	60
Spain	506	39
Sweden	450	
Japan	378	127
Germany	357	
Finland	338	
Vietnam	332	75
Malaysia	330	
Norway	324	
Italy	301	57
Philippines	300	72
New Zealand	271	
indonesia		211
Poland		39
UK	244	59
Korea (N + S)	221	72
Denmark	43	
Switzerland	41	

From AsianInfo.Org October 27, 2005

### Life Expectancy at Birth

Country at birth	Males	Males	Males	Females	Females	Females
	1980	1999	Change	1980	1999	Change
Australia	71.0	76.2	5.2	78.1	81.8	3.7
Austria	69.0	75.1	6.1	76.1	81.0	4.9
Belgium	70.0	74.4	4.4	76.8	80.8	4.0
Bulgaria	68.5	67.4	-1.1	73.9	74.9	1.0
Canada	71.7	76.3	4.6	78.9	81.7	2.8
Costa Rica	71.9	74.9	3.0	77.0	79.8	2.8
Cuba	72.2	73.3	1.1	n.a.	77.5	--
Czech Republic	66.8	71.4	4.6	73.9	78.2	4.3
Denmark	71.2	74.2	3.0	77.3	79.0	1.7
England and Wales	70.8	75.3	4.5	76.8	80.1	3.3
Finland	69.2	73.8	4.6	77.6	81.0	3.4
France	70.2	75.0	4.8	78.4	82.5	4.1
Germany	69.6	74.7	5.1	76.1	80.7	4.6
Greece	72.2	75.5	3.3	76.8	80.6	3.8
Hungary	65.5	66.4	0.9	72.7	75.2	2.5
Ireland	70.1	73.9	3.8	75.6	79.1	3.5
Israel	72.2	76.9	4.7	75.8	80.6	4.8
Italy	70.6	75.6	5.0	77.4	82.3	4.9
Japan	73.4	77.1	3.7	78.8	84.0	5.2
Netherlands	72.5	75.3	2.8	79.2	80.5	1.3
New Zealand	70.0	75.7	5.7	76.3	80.8	4.5
Norway	72.3	75.6	3.3	79.2	81.1	1.9
Poland	66.0	68.2	2.2	74.4	77.2	2.8
Portugal	67.7	72.2	4.5	75.2	79.2	4.0
Puerto Rico	70.8	70.7	-0.1	76.9	79.8	2.9
Romania	66.6	67.1	0.5	71.9	74.2	2.3
Russian Federation	61.4	59.4	-2.0	73.0	72.0	-1.0
Scotland	69.0	72.7	3.7	75.2	78.1	2.9
Singapore	69.8	75.6	5.8	74.7	79.7	5.0
Slovakia	66.8	69.0	2.2	74.3	77.2	2.9
Spain	72.5	75.1	2.6	78.6	82.1	3.5
Sweden	72.8	77.1	4.3	78.8	81.9	3.1
Switzerland	72.8	76.8	4.0	79.6	82.5	2.9
United State	70.0	73.9	3.9	77.4	79.4	2.0

Source: Health, United States, 2004

## 60 Students, Sorted by Gender

Student	Gender	Pol Party	GPA	Career Aim	Hrs Work/Wk	Hrs Vol/Wk
1	F	Rep	3.1	Hospitality	3	0
2	F	Ind	2.9	Education	10	6
3	F	none	1.8	Counseling	14	6
4	F	Ind	2.5	Medicine	16	5
5	F	Rep	2.8	Prog/Tech	22	0
6	F	none	3.9	Business	16	4
7	F	Dem	2.0	Retail	10	3
8	F	Dem	2.4	Science	14	2
9	F	Dem	2.3	Education	8	0
10	F	Ind	3.2	undecided	2	8
11	F	Rep	0.8	Medicine	0	0
12	F	Rep	3.6	Education	12	4
13	F	Dem	2.9	Retail	10	0
14	F	Ind	2.7	Counceling	11	2
15	F	Dem	3.0	Accounting	15	0
16	F	Dem	2.6	Engineering	16	0
17	F	Ind	2.6	Retail	24	2
18	F	Rep	3.5	Medicine	30	0
19	F	Dem	2.5	undecided	32	0
20	F	Ind	3.8	Law	16	4
21	F	Ind	2.7	Retail	22	0
22	F	Dem	2.9	Accounting	26	2
23	F	Rep	3.2	Education	28	3
24	F	Rep	2.7	Engineering	8	8
25	F	Dem	2.8	Medicine	32	2
26	F	Rep	1.9	Prob/tech	16	0
27	F	Dem	1.9	Business	12	0
28	F	Rep	2.0	Hospitality	20	2
29	F	Dem	3.6	Architecture	20	0
30	F	none	2.9	Law	12	2
31	F	Ind	2.6	Medicine	20	0
32	F	Rep	3.5	Law	16	0
33	M	Dem	3.2	Education	6	4
34	M	Dem	3.9	Engineering	5	4
35	M	Rep	3.2	Law	4	2
36	M	Rep	2.6	Education	20	0
37	M	Rep	3.4	Education	12	0
38	M	Dem	3.1	Accounting	0	6
39	M	Ind	2.2	Business	10	2

40	M	none	3.9	Engineering	6	0
41	M	Dem	3.1	Education	16	4
42	M	Rep	2.2	Education	24	0
43	M	Dem	1.9	Other	40	0
44	M	Rep	2.1	Journalism	14	8
45	M	Rep	4.0	Law	14	6
46	M	Dem	3.1	Engineering	22	0
47	M	Dem	2.4	Education	20	2
48	M	Dem	2.9	Prog/Tech	22	0
49	M	Rep	3.6	Business	26	0
50	M	Dem	3.5	Art/Music	14	0
51	M	Ind	4.0	Journalism	14	4
52	M	Dem	2.4	other	12	6
53	M	Rep	3.1	Art/Music	0	6
54	M	Rep	3.5	other	6	2
55	M	Dem	2.5	undecided	8	4
56	M	Dem	2.1	Art/Music	10	4
57	M	Dem	2.9	Education	18	0
58	M	Ind	3.2	Accounting	8	2
59	M	Rep	2.6	Education	24	0
60	M	Rep	3.1	Education	22	2

**60 Students, Independent (Pol Party)**

Gender	Pol Party	GPA	Career Aim	Hrs Work/Wk	Hrs Vol/Wk
F	Ind	2.9	Education	10	6
F	Ind	2.5	Medicine	16	5
F	Ind	3.2	undecided	2	8
F	Ind	2.7	Counceling	11	2
F	Ind	2.6	Retail	24	2
F	Ind	3.8	Law	16	4
F	Ind	2.7	Retail	22	0
F	Ind	2.6	Medicine	20	0
M	Ind	2.2	Business	10	2
M	Ind	4.0	Journalism	14	4
M	Ind	3.2	Accounting	8	2

### 60 Students, Democrat (Pol Party)

Gender	Pol Party	GPA	Career Aim	Hrs Work/Wk	Hrs Vol/Wk
F	Dem	2.0	Retail	10	3
F	Dem	2.4	Science	14	2
F	Dem	2.3	Education	8	0
F	Dem	2.9	Retail	10	0
F	Dem	3.0	Accounting	15	0
F	Dem	2.6	Engineering	16	0
F	Dem	2.5	undecided	32	0
F	Dem	2.9	Accounting	26	2
F	Dem	2.8	Medicine	32	2
F	Dem	1.9	Business	12	0
F	Dem	3.6	Architecture	20	0
M	Dem	3.2	Education	6	4
M	Dem	3.9	Engineering	5	4
M	Dem	3.1	Accounting	0	6
M	Dem	3.1	Education	16	4
M	Dem	1.9	Other	40	0
M	Dem	3.1	Engineering	22	0
M	Dem	2.4	Education	20	2
M	Dem	2.9	Prog/Tech	22	0
M	Dem	3.5	Art/Music	14	0
M	Dem	2.4	other	12	6
M	Dem	2.5	undecided	8	4
M	Dem	2.1	Art/Music	10	4
M	Dem	2.9	Education	18	0

### 60 Students, Republican (Pol Party)

Gender	Pol Party	GPA	Career Aim	Hrs Work/Wk	Hrs Vol/Wk
F	Rep	3.1	Hospitality	3	0
F	Rep	2.8	Prog/Tech	22	0
F	Rep	0.8	Medicine	0	0
F	Rep	3.6	Education	12	4
F	Rep	3.5	Medicine	30	0
F	Rep	3.2	Education	28	3
F	Rep	2.7	Engineering	8	8
F	Rep	1.9	Prob/tech	16	0
F	Rep	2.0	Hospitality	20	2
F	Rep	3.5	Law	16	0
M	Rep	3.2	Law	4	2

M	Rep	2.6	Education	20	0
M	Rep	3.4	Education	12	0
M	Rep	2.2	Education	24	0
M	Rep	2.1	Journalism	14	8
M	Rep	4.0	Law	14	6
M	Rep	3.6	Business	26	0
M	Rep	3.1	Art/Music	0	6
M	Rep	3.5	other	6	2
M	Rep	3.1	Education	22	2
M	Rep	2.6	Education	24	0

## References

Konold, C. (1996). Representing probabilities with pipe diagrams. *Mathematics Teacher*, 89, 378-382.

Paulos, J. A. (1989). *Innumeracy*. New York: Hill and Wang.

Piaget, J., & Inhelder, B. (1975). *The origin of the idea of chance in children*. London: Routledge & Kegan Paul.

(This book is perhaps the most readable of Piaget's. The work with children led to some of the exercises in the module.)

Shaughnessy, J. M. (1992). Research in probability and statistics. In D. A. Grouws (Ed.), *Handbook of research on mathematics teaching and learning* (pp. 465–494). New York: Macmillan.

Utts, J. M. (1996). *Seeing through statistics*. New York: Duxbury Press (Wadsworth).