



Figure 1-2 Statistical Thinking

Prepare

Context Let's consider the data in Table 1-1. (The data are from Data Set 6 in Appendix B.) The data in Table 1-1 consist of measured IQ scores and measured brain volumes from 10 different subjects. The data are matched in the sense that each individual "IQ/brain volume" pair of values is from the same subject. The first subject had a measured IQ score of 96 and a brain volume of 1005 cm³. The format of Table 1-1 suggests the following goal: Determine whether there is a relationship between IQ score and brain volume. This goal suggests a possible hypothesis: People with larger brains tend to have higher IQ scores.

Table 1-1 IQ Scores and Brain Volumes (cm³)

IQ	96	87	101	103	127	96	88	85	97	124
Brain Volume (cm ³)	1005	1035	1281	1051	1034	1079	1104	1439	1029	1160