

Chapter 1 Learning Objectives	Section	Related Example on Page(s)	Relevant Chapter Review Exercise(s)	Can I do this?
Identify the individuals and variables in a set of data.	Intro	3	R1.1	
Classify variables as categorical or quantitative.	Intro	3	R1.1	
Display categorical data with a bar graph. Decide whether it would be appropriate to make a pie chart.	1.1	9	R1.2, R1.3	
Identify what makes some graphs of categorical data deceptive.	1.1	10	R1.3	
Calculate and display the marginal distribution of a categorical variable from a two-way table.	1.1	13	R1.4	
Calculate and display the conditional distribution of a categorical variable for a particular value of the other categorical variable in a two-way table.	1.1	15	R1.4	
Describe the association between two categorical variables by comparing appropriate conditional distributions.	1.1	17	R1.5	
Make and interpret dotplots and stemplots of quantitative data.	1.2	Dotplots: 25 Stemplots: 31	R1.6	
Describe the overall pattern (shape, center, and spread) of a distribution and identify any major departures from the pattern (outliers).	1.2	Dotplots: 26	R1.6, R1.9	
Identify the shape of a distribution from a graph as roughly symmetric or skewed.	1.2	28	R1.6, R1.7, R1.8, R1.9	
Make and interpret histograms of quantitative data.	1.2	33	R1.7, R1.8	
Compare distributions of quantitative data using dotplots, stemplots, or histograms.	1.2	30	R1.8, R1.10	
Calculate measures of center (mean, median).	1.3	Mean: 49 Median: 52	R1.6	
Calculate and interpret measures of spread (range, <i>IQR</i> , standard deviation).	1.3	<i>IQR</i> : 55 Std. dev: 60	R1.9	
Choose the most appropriate measure of center and spread in a given setting.	1.3	65	R1.7	
Identify outliers using the $1.5 \times IQR$ rule.	1.3	56	R1.6, R1.7, R1.9	
Make and interpret boxplots of quantitative data.	1.3	57	R1.7	
Use appropriate graphs and numerical summaries to compare distributions of quantitative variables.	1.3	65	R1.8, R1.10	