## UNIT 6 • DESCRIBING DATA

Lesson 2: Working with Two Variables

## Problem-Based Task 6.2.1: FunZone America Survey Coaching

a. Sort the data first by attraction. Then, within each attraction, sort by age.
b. Count the number of attractions selected for each given age range. For example, to fill in the first joint frequency, count the number of people aged 5 through 15 who selected roller coasters. Fill in a two-way frequency table with this information.
c. Find the marginal frequencies. Sum each row, and sum each column.
d. Which type of conditional relative frequency would show the type of attraction preferred by each age group?
e. Calculate the conditional relative frequencies and put them in a table.
f. Look at the conditional relative frequencies for each age group. Is there an attraction that is preferred by each group?

