

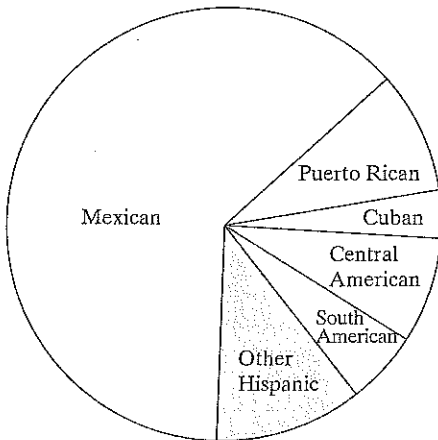
11. **Birth days** Births are not evenly distributed across the days of the week. Here are the average numbers of babies born on each day of the week in the United States in a recent year.<sup>10</sup>

Day	Births
Sunday	7374
Monday	11,704
Tuesday	13,169
Wednesday	13,038
Thursday	13,013
Friday	12,664
Saturday	8459

- (a) Present these data in a well-labeled bar graph. Would it also be correct to make a pie chart?  
 (b) Suggest some possible reasons why there are fewer births on weekends.

13. **Hispanic origins** Below is a pie chart prepared by the Census Bureau to show the origin of the more than 50 million Hispanics in the United States in 2010.<sup>12</sup> About what percent of Hispanics are Mexican? Puerto Rican?

Percent Distribution of Hispanics by Type: 2010



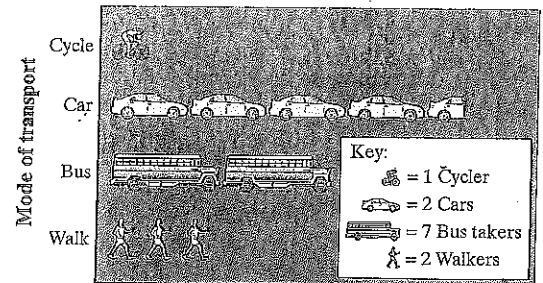
*Comment:* You see that it is hard to determine numbers from a pie chart. Bar graphs are much easier to use. (The Census Bureau did include the percents in its pie chart.)

15. **Buying music online** Young people are more likely than older folk to buy music online. Here are the percents of people in several age groups who bought music online in a recent year.<sup>14</sup>

Age group	Bought music online
12 to 17 years	24%
18 to 24 years	21%
25 to 34 years	20%
35 to 44 years	16%
45 to 54 years	10%
55 to 64 years	3%
65 years and over	1%

- (a) Explain why it is *not* correct to use a pie chart to display these data.  
 (b) Make a bar graph of the data. Be sure to label your axes.

17. **Going to school** Students in a high school statistics class were given data about the main method of transportation to school for a group of 30 students. They produced the pictograph shown.



- (a) How is this graph misleading?  
 (b) Make a new graph that isn't misleading.