- Sample answer: A two-way relative frequency table is useful for comparing the frequencies of data values relative to a total. Instead of comparing counts, you can compare the relative frequencies of each data value to the total, by rows, columns, or the entire table.
- 2. Sample answer: The percentages won't add up to 100% because they are not all relative to a common total.
- 3. Yes; Sample answer: A frequency table with a total value of 100 will provide the same information as a total relative frequency table because dividing a data value by the total of 100 and then multiplying by 100 to determine the percent will not change the value.

4.
$$\frac{101}{223} \cdot 100 \simeq 45\%$$

- 5. $\frac{86}{131} \cdot 100 \simeq 66\%$
- 6. $\frac{86}{101} \cdot 100 \simeq 85\%$
- 20.8; 27.5; 48.3
 16.7; 12.5; 29.2
 10.0; 12.5; 22.5
 47.5; 52.5
- 8. 60.0; 40.0 43.3; 56.7 50.9; 49.1
- 9. 4-door

10. a. 48%b. No; Sample answer: The relative frequencies are all very close in value.

11. a. 68; 32; 100 22; 78; 100 45; 55; 100

> b. Yes; Sample answer: 68% of workers in the day shift answered "Yes", but only 22% of workers in the night shift answered "Yes."

12. A