Name _____ Date _____

1. The frequency table shows the results of a survey that asked people how many parking tickets they received during the last five years. Display the data in a histogram. Describe the shape of the distribution.

Number of parking tickets	0–1	2–3	4–5	6–7	8–9	10–11
Frequency	18	23	20	14	4	1

In Exercises 2 and 3, describe the shape of the distribution of the data. Explain your reasoning.

2.
```
Stem | Leaf
   1 | 2 3 4 5 6 7 8 9
   2 | 0 1 2 3 4 5 6 7 8 9
   3 | 0 1 2 3 4 5 6
   4 | 0 1 7 8 9
   5 | 2 3
   6 | 4
   7 | 5
```
        Key: 2|1 = 21

3.
```
Stem | Leaf
   3 | 8
   4 | 4 5 5
   5 | 0 2 4 4 5
   6 | 2 3 4 5 5 8 9
   7 | 2 4 6 6 7
   8 | 1 3 3
   9 | 4
```
        Key: 4|5 = 45

4. The table shows the results of a survey that asked sophomores and juniors how many school events they attended last month.

   a. Make a double box-and-whisker plot that represents the data. Describe the shape of each distribution.

   b. Compare the number of school events attended by sophomores to the number of school events attended by juniors.

   c. About how many of the juniors surveyed would you expect to attend between 7 and 11 school events?

	Sophomores	Juniors
Survey size	55	52
Minimum	0	2
Maximum	9	15
1st Quartile	3	7
Median	6	12
3rd Quartile	8	14
Mean	9	11
Standard Deviation	2.4	4.3