Name _____ Date _____

11.3 Practice A

1. The frequency table shows the results of a survey that asked people how many hours they spend working in the yard per month. Display the data in a histogram. Describe the shape of the distribution.

Hours in yard	0–1	2–3	4–5	6–7	8–9	10–11
Frequency	28	35	25	15	12	4

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

2.

Stem	**Leaf**
1	4 7 8
2	3 4 5 8
3	0 1 1 4 6
4	2 2 4 5
5	0 1 2

Key: 2 | 1 = 21

3.

Stem	**Leaf**
3	8
4	5
5	0 1 2 4
6	2 3 3 5 7 8 9
7	1 2 2 4 6 6

Key: 5 | 2 = 52

4. The table shows the last gas purchases at the pump.

Gas Purchases (dollars)						
36	75	42	17	98	93	10
24	15	27	32	23	65	27
54	71	48	43	38	26	58

a. Display the data in a histogram using six intervals beginning with 10–24.

b. Which measures of center and variation best represent the data? Explain.

Name_____ Date _____

11.3 Practice B

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