14-2

Practice

Measures of Central Tendency

Find the mean, median, and mode of each set of data.

1. {15, 42, 26, 39, 93, 42}

2. {32, 12, 61, 94, 73, 62, 94, 35, 44, 52}

3. {152, 697, 202, 312, 109, 134, 116}

4. {18, 6, 22, 33, 19, 34, 14, 54, 12, 22, 19}

5. A shoe store employee sets up a display by placing shoeboxes in 10 stacks. The numbers of boxes in each stack are 5, 7, 9, 11, 13, 10, 9, 8, 7, and 5.

a. What is the mean of the number of boxes in a stack?

b. Find the median of the number of boxes in a stack.

c. If one box is removed from each stack, how will the mean and median be affected?

Find the mean, median, and mode of the data represented by each stem-and-leaf plot.

6.

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

2/2 = 220

7.

Stem	Leaf
9	0 1 1 3
10	1 3 5 6
11	3 4 6 8

9/0 = 90

8.

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

1/1 = 1.1

9. ***Medicine*** A frequency distribution for the number of patients treated at 50 U.S. cancer centers in one year is given at the right.

a. Use the frequency chart to find the mean of the number of patients treated by a cancer center.

b. What is the median class of the frequency distribution?

Patients	Number of Cancer Centers
500–1000	26
1000–1500	14
1500–2000	6
2000–2500	0
2500–3000	2
3000–3500	0
3500–4000	2

Source: *U.S. News Online*