

LESSON 7-1 **Practice B**
Frequency Tables, Stem-and-Leaf Plots, and Line Plots

The table shows the heights of students in Ms. Blaire's class.

Height (in.)	
Males	60, 45, 48, 57, 62, 59, 57, 60, 56, 58, 61, 52, 55
Females	49, 52, 56, 48, 51, 60, 47, 53, 55, 58, 54

The following is a frequency table of the data:

Height (in.)	Frequency	Cumulative Frequency
45-49	5	5
50-54	5	10
55-59	9	19
60-64	5	24

- How many of the students were less than 60 in tall? _____
- What was the most common height interval? _____
- How many students were over 49 inches tall? _____

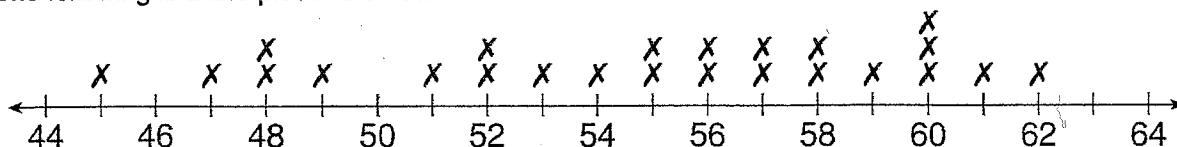
The following is a stem-and-leaf plot of the data:

Stem	Leaves
4	5 7 8 8 9
5	1 2 2 3 4 5 5 6 6 7 7 8 8 9
6	0 0 0 1 2

Key: 5 | 2 means 52

- How many of the students were less than 50 inches tall? _____
- What was the range of the data? _____
- What was the height of the shortest student? the tallest? _____

The following is a line plot of the data:



- Which height occurred the greatest number of times? _____
- How many heights were between 50 and 64? _____

The list below shows the ages of all the presidents inaugurated in the twentieth century. They are then arranged in a frequency table.

42, 51, 56, 55, 51, 54, 51, 60, 62, 43, 55, 56, 61, 52, 69, 64, 46

Ages	Frequency	Cumulative Frequency
40-44	2	2
45-49	1	3
50-54	5	8
55-59	4	12
60-64	4	16
65-69	1	17

9. How many presidents were in their 50s when they took office? _____
10. How many presidents were younger than 60 years old when inaugurated? _____
11. What was the most common age range of inaugurated presidents? _____

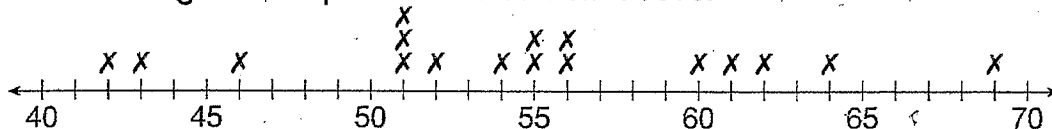
The following is a stem-and-leaf plot of the data from above:

Stems	Leaves
4	2 3 6
5	1 1 1 2 4 5 5 6 6
6	0 1 2 4 9

Key: 4 | 6 means 46

12. What is the range of the data? _____
13. How many presidents were in their 60s when inaugurated? _____
14. What was the age of the youngest inaugurated president? _____

The following is a line plot of the data from above:



15. What is the median age? _____
16. How many presidents were between the age of 40 and 60 when inaugurated? _____
17. How old was the oldest president inaugurated? _____