Collect and Organize Data
Skill 4 - 4H

Stem and Leaf Plot
Directions: Use the table to answer the questions.

The stems are the tens digits and the leaves are the ones digits. Look at the 6 under the stem column. The test scores are 63, 65, and 69.

Example

Mr. Hammond gave a math test and recorded each students score in this stem-and-leaf plot.

Test Scores

Stem	Leaves
6	3 5 9
7	0 6
8	2 3 3 3 7 8
9	1 3 4 5 6 7
10	0 0

6 | 3 = 63

1. What is the lowest test score? 63

2. What is the highest test score? 100

3. What is the range? 100 – 63 = 37

4. What is the median? 87

63, 65, 69, 70, 76, 82, 83, 83, 83, 87, 88, 91, 93, 94, 95, 96, 97, 100, 100

Mr. Miller gave a science test and recorded each students score in this stem-and-leaf plot.

Test Scores

Stem	Leaves
5	4 6
6	1 3 4 8
7	0 2 5
8	1 5 7 9
9	2 3 5 7
10	0

5 | 4 = 54

1. What is the lowest test score?

2. What is the highest test score?

3. What is the range?

4. What is the median?

5. What is the mode?

6. How many students scored 100?

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Stem and Leaf Plot
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Ms. Cole gave a science test and recorded each students score in this stem-and-leaf plot.

Test Scores

Stem	Leaves
7	0 6 8 8 9
8	0 2 3 7 7 7 9
9	2 8 9

$5 | 4 = 54$

1. What is the lowest test score?

2. What is the highest test score?

3. What is the range?

4. What is the median?

Ms. Moore gave a test and recorded each students score in this stem-and-leaf plot.

Test Scores

Stem	Leaves
6	2 6 7
7	0 8
8	2 3 5 5 5 8
9	1 2 3 3 7 7 9
10	0

$6 | 2 = 62$

1. What is the lowest test score?

2. What is the highest test score?

3. What is the range?

4. What is the median?

5. What is the mode?

6. How many students scored 93?

Page 1

First Stem-and-leaf-plot on page 1. Answer on worksheet

Second Stem-and-leaf-plot on page 1

1. What is the lowest test score? 54

2. What is the highest test score? 100

3. What is the range? 100 - 54 = 46

4. What is the median? 54, 56, 61, 63, 64, 68, 70, 72, 75, 81, 85, 87, 89, 92, 93, 95, 97, 100
Find the numbers in the middle. 75 and 81
Find the mean of the middle numbers. (75 + 81) ÷ 2 = 78
The median is 78

5. What is the mode? There is no number that occurs more than once so there is no mode. The **mode is the** value(s) that occurs most often.

6. How many students scored 100? one

Page 2

1. What is the lowest test score?   70

2. What is the highest test score?   99

3. What is the range? 99 - 70 = 29

4. What is the median? 70, 76, 78, 78, 79, 80, 82, 83, 87, 87, 87, 89, 92, 98, 99 The middle number is 83 so the median is 83.

Second stem-and-leaf-plot on page 2.

1. What is the lowest test score?   62

2. What is the highest test score? 100

3. What is the range? 100 - 62 = 38

4. What is the median? 62, 66, 67, 70, 78, 82, 83, 85, 85, 85, 88, 91, 92, 93, 93, 97, 97, 99, 100 The median is 85

5. What is the mode? 62, 66, 67, 70, 78, 82, 83, 85, 85, 85, 88, 91, 92, 93, 93, 97, 97, 99, 100   The mode is 85

6. How many students scored 93? Answer: 2 students scored 93