Name: Key

7-3 Unit 2 Day 2 Notes 4

Stem and Leaf Plots

Stem-and-leaf plot: Graph used to organize and display data to compare frequency

- Stem represents first digit or digits
- Leaf represents last digit

$4 \mid 7 = 47$

Ex 1: Create a stem and leaf plot for the following set of data.

42, 45, 37, 42, 45, 45, 45, 46, 47, 49, 63

First, put the numbers in order:

37, 42, 42, 45, 45, 45, 45, 46, 47, 49, 63

A stem and leaf plot for that data looks like this:

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

Use your stem and leaf plot to find the following:

RANGE: 63 − 37 = 26

MEDIAN: 45

MODE: 45

Key

5 | 1 = 51

Ex 2: Use the following stem and leaf plot to find the mean, median, mode, and range of the data.

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

MEAN: 21.6/14 = 1.54

MEDIAN: 1.5

MODE: 1.5 and 2.1

RANGE: 2.4 − .4 = 2.0

Key

1 | 3 = 1.3

.4, .8, .9, 1.1, 1.3, 1.4, 1.5, 1.5, 1.8, 2.0, 2.1, 2.1, 2.3, 2.4

Name:_____ 7-3 Unit 2 Day 2 Notes

Back to Back Stem-and-Leaf Plots Notes

4

1. Use the given data to make a back-to-back stem-and-leaf plot.

NBA Midwest Division 2000–2001 Final Standings

NBA Team	Wins	Losses	NBA Team	Wins	Losses
San Antonio Spurs	58	24	Houston Rockets	45	37
Utah Jazz	53	29	Denver Nuggets	40	42
Dallas Mavericks	53	29	Vancouver Grizzlies	23	59
Minnesota Timberwolves	47	35			

Wins		Losses
3	2	4 9 9
	3	5, 7
7, 5, 0	4	2
8, 3, 3	5	9

Key:
2|3| = 32
|5|5 = 55

8. Use the given data to make a back-to-back stem-and-leaf plot.

Fish Caught at Lake Paden					
	April	May	June	July	August
North shore	72	68	81	47	52
East shore	64	59	53	51	43

North Shore		East Shore
7	4	3
2	5	1, 3, 9
8	6	4
2	7	
1	8	

Key: 6|5| = 56
|7|3 = 73

The double stem-and-leaf plot shows the heights in inches of the players on the seventh grade and the eighth grade basketball teams.

7th Grade leaf	Stem	8th Grade leaf
9, 9, 8, 7, 4	4	
9, 7, 7, 5, 4, 4, 4, 0	5	2, 3, 5, 8, 8, 9
8, 6, 6, 4, 3, 1	6	0, 1, 5, 8, 8, 8, 8
2, 2, 1, 0	7	0, 0, 1, 3, 4, 6, 7, 7, 8
	8	0

Key: |5|7 = 57; 7|4| = 74

3. What is the mean height of the 7th grade players? 1350/23 = 58.7

4. What is the mode height of the 8th grade players? 68

5. Which team has the greater median player height? 57 or 68
7th 8th