

Seminar 7 (Suggested Solutions)

1. Stem and Leaf Display:

1	7	
2	3390	
3	923	
4	5150	
5	6928	
6	71	
7	3	
8		
9	8	

N=20

2a. Revised Stem and Leaf Display (with one-digit leaf):

9	0 6	
10	2	
11	1 6	
12	7	
13	0	
14	3 5 7 8	
15	3 7	
16		
17	1 2 2 8	
18	5	
19	7	
20	2	

N=20

b. Revised Stem and Leaf Display (with two-digit leaf):

0	90 96	
1	02 11 16 27 30 43 45 47 48 53 57 71 72 72 78 85 97	
2	02	

N=20

c. Double-Stem and Leaf Display (with one-digit leaf):

9L	0	
9H	6	
10L	2	
10H		
11L	1	
11H	6	
12L		
12H	7	
13L	0	
13H		
14L	3	
14H	5 7 8	
15L	3	
15H	7	
16L		
16H		
17L	1 2 2	
17H	8	
18L		
18H	5	
19L		
19H	7	
20L	2	
20H		

N=20

- d. Class interval/width = $(202 - 90)/5 = 22.4$ (round up to 23)

Class	Frequency
90 – 112	4
113 – 135	3
136 – 158	6
159 – 181	4
182 – 204	3
Total	20

- e. Stem-and-leaf display provides more information. It shows:
- the shape of data distribution
 - the maximum and minimum values
 - the central tendency and dispersion
 - the actual data value