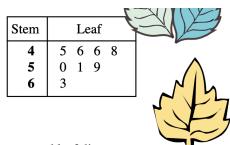


A stem and leaf diagram is another way of organising numbers. This diagram represents the numbers 45, 46, 46, 48, 50, 51, 59, and 63. Note how the numbers in the leaf section are put in ascending order.



4).

Α. Write all the numbers represented in each of the following stem and leaf diagrams.

1	١	
T	,	٠

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

2	2).					
	Stem		Le	eaf		
	0	2	6	8		
	1	3	4	5	8	
	2	1	2	4		
	3	0	5			

3). Stem Leaf

Stem		Ι	Lea	f	
12	1	6	8	8	9
13	0	7	9		
14	2	2	2		
15	0	8			

5).

					Ŭ
Stem		Ι	Lea	f] [
18	3	6	7	7	[
19	0	2	9	9	
20	1	5	8		
21	2	3	3	5	

e	5).						
	Stem		I	Lea	f		
	54	9	9				
	55	0	2	4	5		
	56	1	2	7	7		
	57	3	8	9	9	9	

	Stem		Leai					
	9	0	6	7	9			
	10	3	7	9				
	11	3	8					
	12	2	3					
7	').							
	Stem	Leaf						

7

3

4 6

5669

1 3 4 4

6 7

8

9

8).					
	Stem		Ι	Lea	f	
	88	7				
	89	0	8	9		
	90	1	3	5	6	9
	91	2	8			

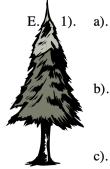
Β. Draw a stem and leaf diagram for each of the following sets of data.

- 1). 72, 45, 55, 71, 40, 59, 65, 52, 43, 79, 47, 57.
- 2). 18, 9, 23, 37, 16, 33, 18, 29, 3, 7, 19, 21.
- 88, 96, 74, 107, 78, 91, 100, 91, 74, 106, 97, 85. 3).
- 4). 142, 157, 136, 149, 163, 139, 140, 158, 139, 151, 132, 148, 143.
- 5). 287, 310, 298, 306, 294, 283, 315, 300 289, 301, 294, 286, 291.
- 35, 67, 43, 59, 51, 39, 60, 45, 55, 39, 48, 53, 40, 49. 6).
- 460, 478, 493, 451, 464, 486, 495, 482, 465, 473, 483, 472, 479, 484. 7).
- 724, 693, 706, 684, 714, 719, 700, 689, 699, 701, 714, 709, 695, 691, 708. 8).
- 9). 345, 309, 333, 327, 314, 326, 340, 312, 305, 321, 337, 333, 341, 327, 339, 312.
- 10). 275, 312, 306, 294, 315, 287, 313, 301, 298, 281, 299, 304, 307, 312, 298, 271.



	a).	the mode,	b).	the median,	c). the	e mean, d).	the ra	nge.
1).		2).		3) .		4	4).	
	Stem	Leaf	Stem	Leaf		Stem	Leaf		Stem	Leaf
	2	3 3 8 9	0	379		9	4 4 7 9		12	2 3 7 8 8
	3	0 4 7	1	2468		10	679		13	179
	4	5 5 5	2	1 2 4 8		11	3 3		14	4 4 4
	5	7	3	0 0		12	2 3		15	59

C. For each of the following stem and leaf diagrams finda). the mode,b). the median,c). the mean,d).



- Jenny records the heights (mm) of 19 seeds planted from Packet A after 2 weeks. 27, 17, 43, 52, 0, 4, 15, 37, 28, 19, 14, 16, 37, 42, 51, 8, 22, 31, 19. i). Put the information into a stem and leaf diagram. For Packet A find ii). the median, iii). the range. b). Jenny records the heights (mm) of 19 seeds planted from Packet B after 2 weeks. 27, 19, 14, 41, 18, 24, 18, 9, 33, 27, 16, 19, 24, 25, 34, 12, 34, 22, 15. i). Put the information into a stem and leaf diagram. For Packet B find the median, iii). the range. ii).
- c). Which packet do you think is the more successful ? (Give reasons).

Answers

- A. 1). 21, 23, 26, 29, 30, 34, 34, 45, 45, 46, 53
 - 2). 2, 6, 8, 13, 14, 15, 18, 21, 22, 24, 30, 35
 - 3). 90, 96, 97, 99, 103, 107, 109, 113, 118, 122, 123
 - 4). 121, 126, 128, 128, 129, 130, 137, 139, 142, 142, 142, 150, 158
 - 5). 183, 186, 187, 187, 190, 192, 199, 199, 201, 205, 208, 212, 213, 213, 215
 - 6). 549, 549, 550, 552, 554, 555, 561, 562, 567, 567, 573, 578, 579, 579, 579
 - 7). 67, 73, 75, 76, 76, 79, 81, 83, 84, 84, 94, 96
 - 8). 887, 890, 898, 899, 901, 903, 905, 906, 909, 912, 918

B. 1).

1).				
Stem		Le	eaf	
4	0	3	5	7
5	2	5	7	9
6	5			
7	1	2	9	

2).					
Stem		Le	eaf		
0	3	7	9		
1	6	8	8	9	
2	1	3	9		
3	3	7			

3).			
Stem		L	eaf
7	4	4	8

5 8 1 1 6 7

0 6 7

8

9 10 8

4).					
Stem		I	Lea	f	
13	2	6	9	9	
14	0	2	3	8	9
15	1	7	8		
16	3				

5).					
Stem		I	Lea	f	
28	3	6	7	9	
29	1	4	4	8	
30	0	1	6		
31	0	5			

59

Leaf

9).

Stem

30

6).					
Stem		Ι	Lea	f	
3	5	9	9		
4	0	3	-	8	9
4 5 6	1	3	5	9	
6	0	7			

Leaf

7).					
Stem		L	eaf	•	
45	1				
46	0	4	5		
47	2	3	8	9	
48	2	3	4	6	
49	3	5			

8).					
Stem		Ι	Lea	f	
68	4	9			
69	1	3	5	9	
70	0	1	6	8	9
71	4	4	9		
72	4				

31 32 33 34	$\begin{vmatrix} 2 \\ 1 \end{vmatrix}$	2 6	7	7		28 29	1 4		8 6	9
33	3	3	7	9		30	1	4	6	7
34	0	1	5			31	2	2	3	5

С. Correct Stem and leaf diagram with these answers.

10)

27 1 5

Stem

1).	a).	45	b).	34	c).	36	d).	34
2).	a).	30	b).	18	c).	18	d).	27
3).	a).	None	b).	17	c).	107	d).	29
4).	a).	144	b).	137	c).	137	d).	37

Page 4.

	/	/		/	/		/		
E.	1).	a).	i).	Correct Stem an	d leaf diagram	ii).	22	iii).	52

- Correct Stem and leaf diagram 22 iii). 32 b). i). ii).
- c). Same median, -Packet B more consistent growth