

Stem and Leaf Plot

What is A Stem and Leaf Plot Diagram? What Are They Used For?

- A Stem and Leaf Plot is a type of graph that is similar to a histogram but shows more information.
- Summarizes the shape of a set of data.
- provides extra detail regarding individual values.
- The data is arranged by placed value.
- Stem and Leaf Plots are great organizers for large amounts of information.
- The digits in the largest place are referred to as the stem.
- The digits in the smallest place are referred to as the leaf
- The leaves are always displayed to the left of the stem.
- Series of scores on sports teams, series of temperatures or rainfall over a period of time, series of classroom test scores are examples of when Stem and Leaf Plots could be used.

**Constructing
Stem and Leaf Plot**

Constructing Stem and Leaf Plot

Make Stem and Leaf Plot with the following temperatures for June.

77 80 82 68 65 59 61
57 50 62 61 70 69 64
67 70 62 65 65 73 76
87 80 82 83 79 79 71
80 77

Stem (Tens) and Leaf (Ones)

Temperature	
Stem (Tens)	Leaf (Ones)
5	0 7 9
6	1 1 2 2 4 5 5 5 7 8 9
7	0 0 1 3 6 7 7 9 9
8	0 0 0 2 2 3 7

- Begin with the lowest temperature.
- The lowest temperature of the month was 50.
- Enter the 5 in the tens column and a 0 in the ones.
- The next lowest is 57.
- Enter a 7 in the ones
- Next is 59, enter a 9 in the ones.
- find all of the temperatures that were in the 60's, 70's and 80's.
- Enter the rest of the temperatures sequentially until your Stem and Leaf Plot contains all of the data.

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Stem and Leaf Example

Make a Stem and Leaf Plot for the following data.

					Frequency	Stem	Leaf
2.4	0.7	3.9	2.8	1.3			
1.6	2.9	2.6	3.7	2.1	6	0	2 3 4 4 7 9
3.2	3.5	1.8	3.1	0.3	14	1	1 2 2 3 3 4 5 6 7 7 8 8 8 9
4.6	0.9	3.4	2.3	2.5	17	2	0 0 1 1 1 3 3 4 4 5 5 6 6 7 8 8 9
0.4	2.1	2.3	1.5	4.3	8	3	1 2 4 5 5 7 9 9
1.8	2.4	1.3	2.6	1.8	2	4	3 6
2.7	0.4	2.8	3.5	1.4	2	5	3 9
1.7	3.9	1.1	5.9	2.0	2	5	3 9
5.3	6.3	0.2	2.0	1.9	<u>1</u>	6	3
1.2	2.5	2.1	1.2	1.7	50		

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Stem and Leaf Plot Example

Following are the car battery life
Data.

								f	S	L
2.2	4.1	3.5	4.5	3.2	3.7	3	2.6	2	1	6 9
3.1	1.6	3.1	3.3	3.8	3.1	4.7	3.7	5	2	2 5 6 6 9
2.5	4.3	3.4	3.6	2.9	3.3	3.9	3.1	25	3	0 0 1 1 1 1 1 2 2 2 3 3 3 4 4 5 5 6 7 7 7 8 8 9 9
3.3	3.1	3.7	4.4	3.2	4.1	1.9	3.4	<u>8</u>	4	1 1 2 3 4 5 7 7
4.7	3.8	3.2	2.6	3.9	3	4.2	3.5	40		

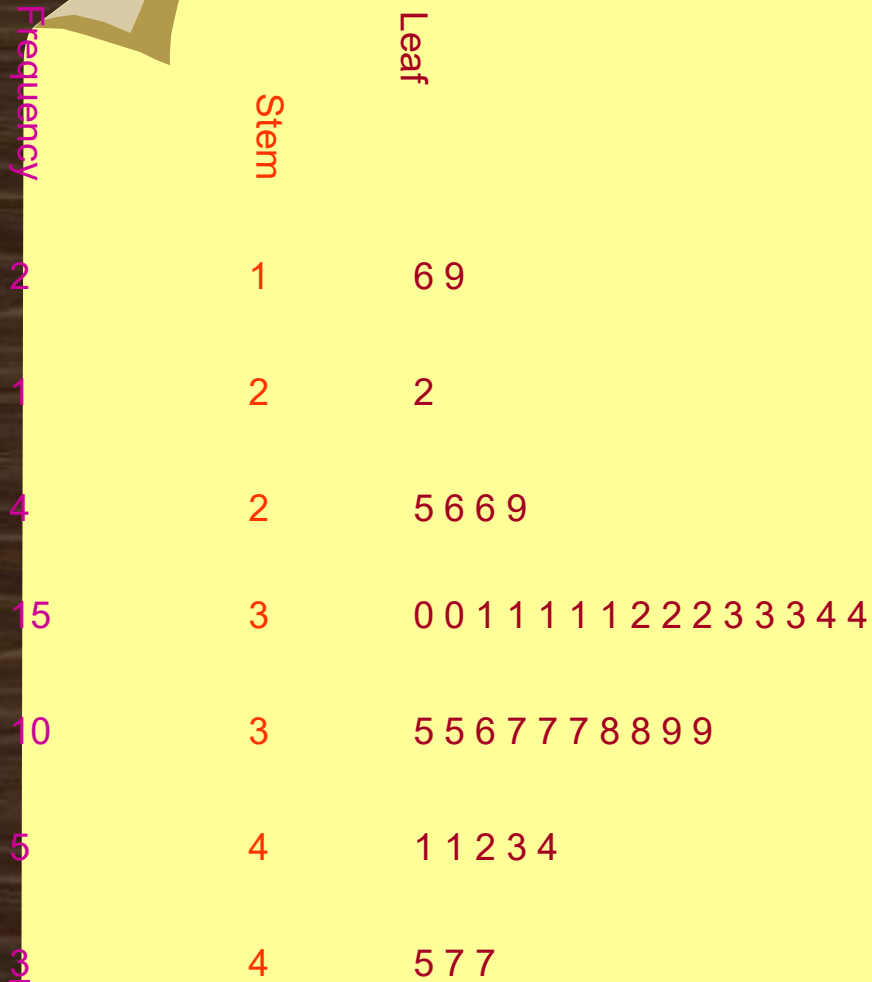
Make a Stem and Leaf Plot.

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