How to Construct a Stem-and-Leaf Plot—TEACHER WORKSHEET

Vocabulary: (Students will write the definitions for the vocabulary.)
- stem

- leaf

- stem-and-leaf plot

Data: Ages of Members in Congress

71	42	64	55	73	42
72	63	54	43	82	75
61	44	75	66	70	48
56	61	70	58	51	49
70	68	59	49	72	80
47	57	49	66	70	49

Steps: (Students will write the steps as teachers go over the steps.)
1. The digits in the lowest place value will be the *leaves*.
2. All other digits will form the *stems*.
3. The smallest number is 42 and the largest number is 82. Arrange the numbers in descending order from 4 to 8 on the left side of the T.
4. Write the leaves to the right side of the T. Order the leaves.
5. Write a key to explain how to read the graph.

<u>Ages of Members in Congress </u>(unarranged)
```
        |
   4    | 7 2 4 9 3 9 2 8 9 9
   5    | 6 7 4 9 5 8 1
   6    | 1 3 1 8 4 6 6
   7    | 1 2 0 5 0 3 0 2 0 5
   8    | 2 0
```

<u>Ages of Members in Congress</u> (arranged)
```
        |
   4    | 2 2 3 4 7 8 9 9 9 9
   5    | 1 4 5 6 7 8 9
   6    | 1 1 3 4 6 6 8
   7    | 0 0 0 0 1 2 2 3 5 5
   8    | 0 2
```

                                5 | 7 = 57 years