

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

# Stem and Leaf Plots Assignment

Make stem and leaf plot for each set of data.

1. 15 10 17 23 39 15 22 16 45 22 13 12    2. 31 14 22 51 33 16 21 24 22 15 30 28 39

3. 4.6 1.5 1.6 2.4 2.6 2.9 3.0 3.2 1.2    4. 5.3 6.7 5.1 3.8 5.6 4.1 6.1 3.2 4.1

# Stem and Leaf Plots Assignment

5. 400 100 110 140 150 250 150 320  
300 370 100 460 500 540 540 550

6. 60 70 100 120 140 230 260 280 300 320  
450 480 560 580 590

List the data given by the stem-and-leaf plot.

7.

Stem	Leaf
1	0 2 3
2	0 1 2 3
3	5 7 9
4	0

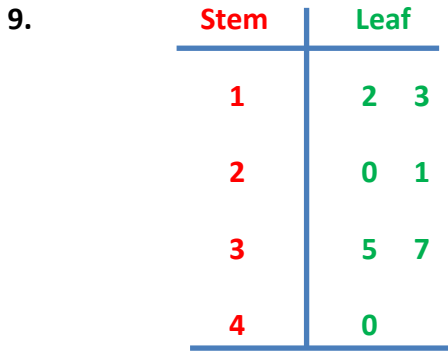
Key: 2 | 2 means 22

8.

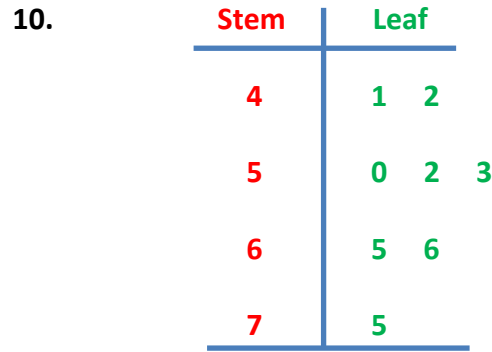
Stem	Leaf
6	5 5 6 7
7	0 2 3
8	5 6
9	5

Key: 2 | 2 means 2.2

# Stem and Leaf Plots Assignment



Key: 3 | 5 means 350



Key: 7 | 5 means 7500

Make a stem and leaf plot to display the data and answer the question.

11. The data below show the ages of people at a diner.

71 15 17 22 10 24 58 56 60 59 65 13

What is the range of the ages?

Describe the age group with the most people.

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Stem and Leaf Plots Assignment

12. The data below show the times, in minutes, taken to solve a puzzle.

5 10 15 12 8 7 20 35 24 15 20 33 15 24 10 8 10 16 10

Find range, median, mode and mean.

13. The data below show the sizes of classes at a school

25 28 27 29 24 22 30 29 32 25 26 29 21 31 28 19 23 24 23 29

Find range, median, mode and mean.

# Stem and Leaf Plots Assignment

Use the stem and leaf plot to find the data and answer the questions.

14. The stem and leaf plot shows the grades that students received on a math quiz.

Stem	Leaf
6	2 6 7
7	0 5
8	2 3 6 7 8
9	1 2 4 6 7

Key: 6 | 2 means 62

- Make an ordered list of the 15 values in the stem and leaf plot.
- Find least value, greatest value, mean, median, mode and range.

15. The stem and leaf plot shows the heights of 10 students in cm.

Stem	Leaf
15	2 6 6
16	0 5
17	2 3 6 7 7

Key: 16 | 5 mean 165 cm

- Make an ordered list of the 10 values in the stem and leaf plot.
- Find least value, greatest value, median and range.

# Stem and Leaf Plots Assignment

Use a back-to-back stem and leaf plot and answer the question.

16. The back-to-back stem-and-leaf plot shows the ages of the 10 people who took part in an aerobics class, and the ages of the 10 people who took part in a swimming class.

Aerobics Class	Stem	Swimming
7 7 4 3	1	4 7
4 4 2 0	2	0 1 5 6
1 0	3	1 4 5 7

Key: 3 | 1 | 4 means 13 and 14 years

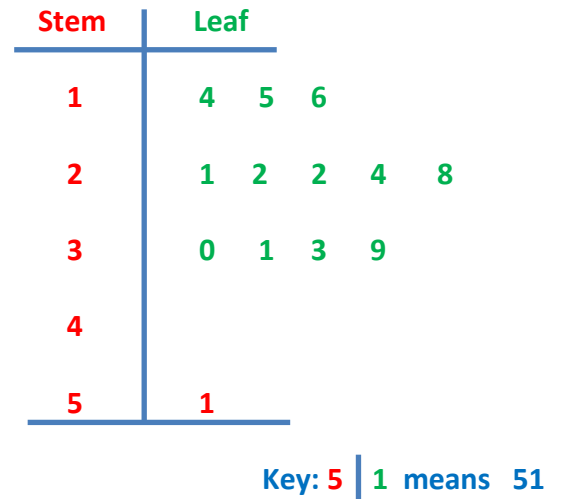
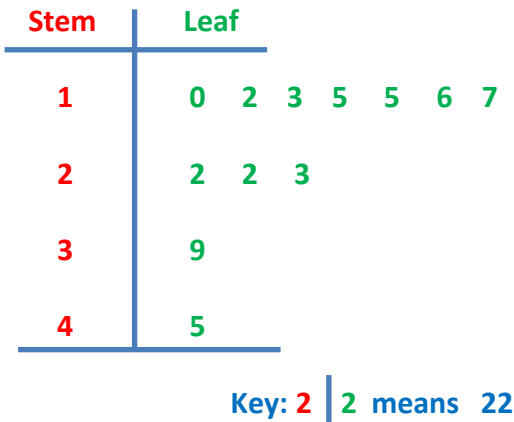
- Make an ordered list.
- Use your diagram to identify the median in each case.
- Based on the data make one observation about the ages of the two groups.

# Stem and Leaf Plots Assignment

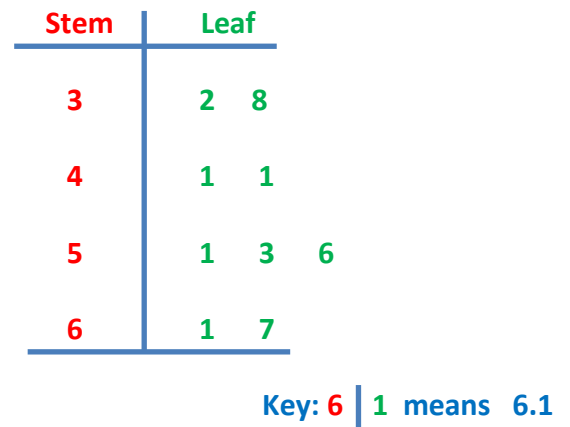
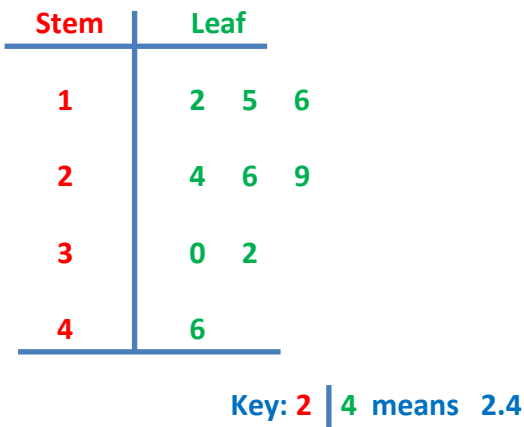
## ANSWERS

Make stem and leaf plot for each set of data.

1. 15 10 17 23 39 15 22 16 45 22 13 12  
 10 12 13 15 15 16 17 22 22 23 39 45
2. 31 14 22 51 33 16 21 24 22 15 30 28 39  
 14 15 16 21 22 22 24 28 30 31 33 39 51

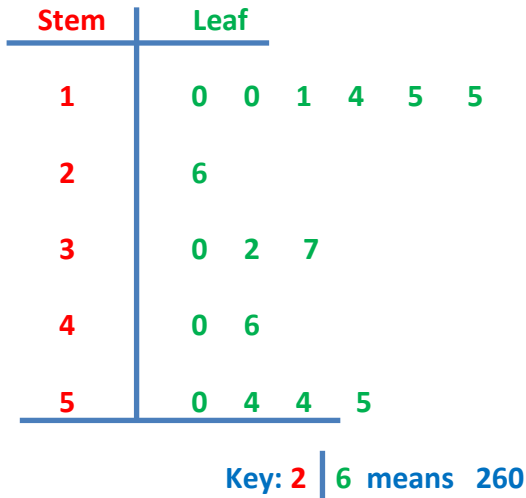


3. 4.6 1.5 1.6 2.4 2.6 2.9 3.0 3.2 1.2  
 1.2 1.5 1.6 2.4 2.6 2.9 3.0 3.2 4.6
4. 5.3 6.7 5.1 3.8 5.6 4.1 6.1 3.2 4.1  
 3.2 3.8 4.1 4.1 5.1 5.3 5.6 6.1 6.7

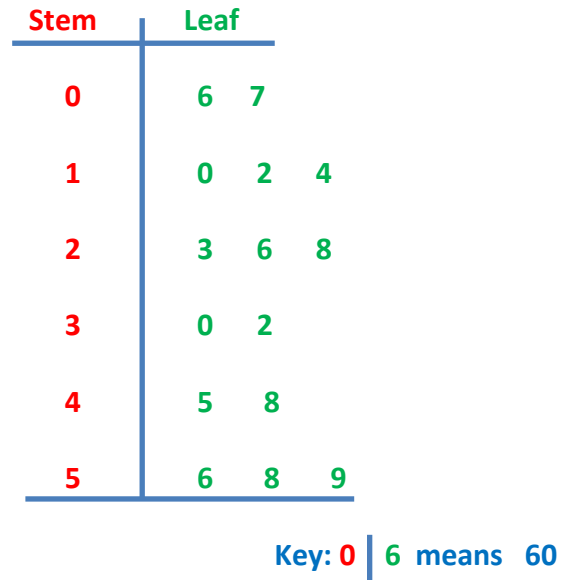


# Stem and Leaf Plots Assignment

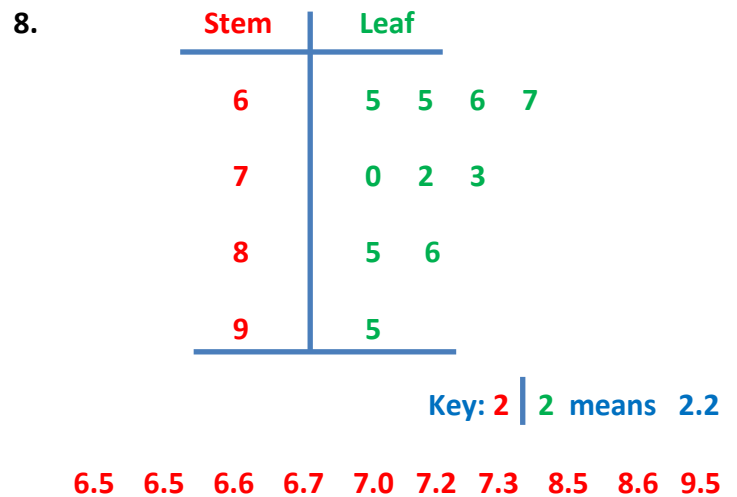
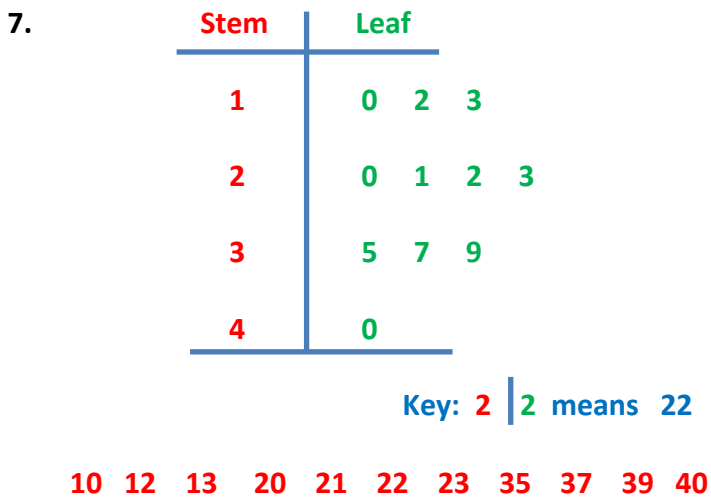
5. 400 100 110 140 150 250 150 320  
 300 370 100 460 500 540 540 550  
 100 100 110 140 150 150 260 300  
 320 370 400 460 500 540 540 550



6. 60 70 100 120 140 230 260 280 300 320  
 450 480 560 580 590  
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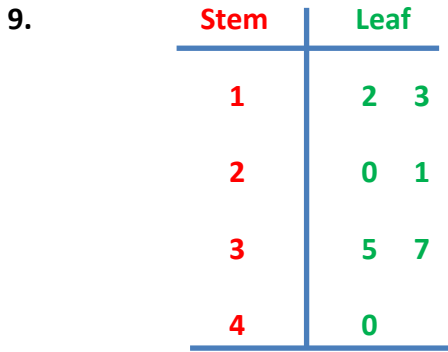


List the data given by the stem-and-leaf plot.





# Stem and Leaf Plots Assignment



Key: 3 | 5 means 350

120 130 200 210 350 370 380 390 400



Key: 7 | 5 means 7500

4100 4200 5000 5200 5300 6500 6600  
7500

Make a stem and leaf plot to display the data and answer the question.

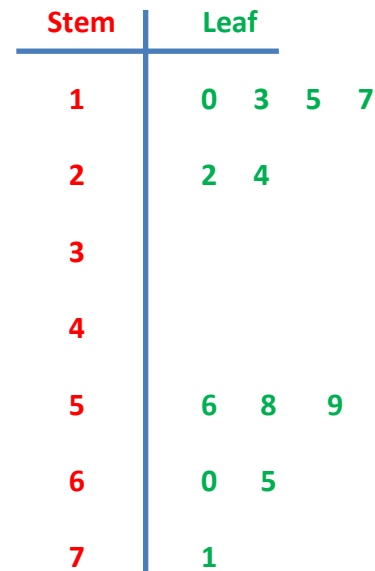
11. The data below show the ages of people at a diner.

71 15 17 22 10 24 58 56 60 59 65 13

What is the range of the ages?

Describe the age group with the most people.

10 13 15 17 22 24 56 58 59 60 65 71



Key: 7 | 1 means 71 years

The range of the ages is:  $71 - 10 = 61$  years

The stem of 1 has more leaves than any other, so the age group with the most people is 10–19 years.

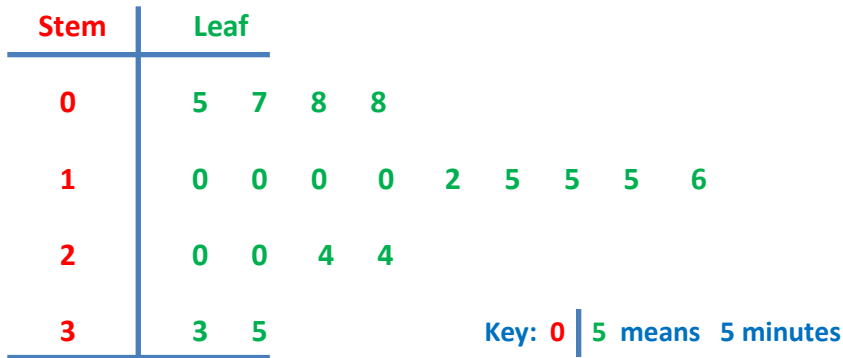
# Stem and Leaf Plots Assignment

12. The data below show the times, in minutes, taken to solve a puzzle.

5 10 15 12 8 7 20 35 24 15 20 33 15 24 10 8 10 16 10

Find range, median, mode and mean.

5 7 8 8 10 10 10 10 12 15 15 15 16 20 20 24 24 33 35



Range =  $35 - 5 = 30$  minutes      Median = 15 minutes      Mode = 10 minutes

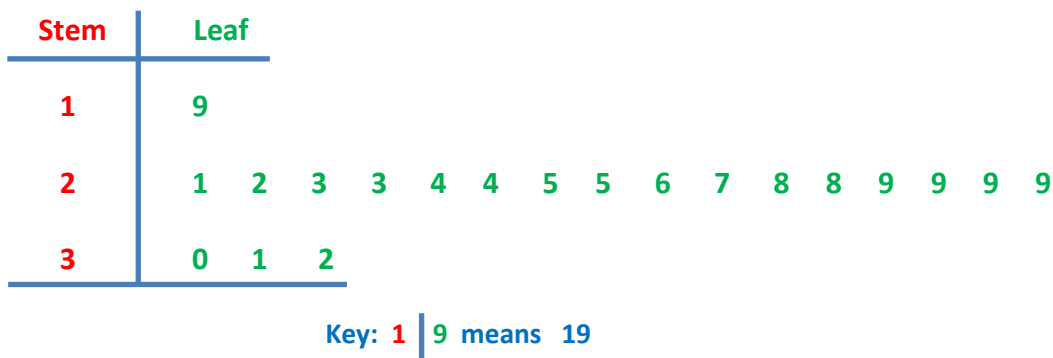
Mean =  $\frac{5+7+8+8+10+10+10+10+12+15+15+15+16+20+20+24+24+33+35}{19} = \frac{297}{19} = 15.63$  minutes

13. The data below show the sizes of classes at a school

25 28 27 29 24 22 30 29 32 25 26 29 21 31 28 19 23 24 23 29

Find range, median, mode and mean.

19 21 22 23 23 24 24 25 25 26 27 28 28 29 29 29 29 30 31 32



Range =  $32 - 19 = 13$       Median =  $\frac{26+27}{2} = 26.5$       Mode = 29

Mean =  $\frac{19+21+22+23+23+24+24+25+25+26+27+28+28+29+29+29+29+30+31+32}{20} = \frac{524}{20} = 26.2$

# Stem and Leaf Plots Assignment

Use the stem and leaf plot to find the data and answer the questions.

14. The stem and leaf plot shows the grades that students received on a math quiz.

Stem	Leaf
6	2 6 7
7	0 5
8	2 3 6 7 8
9	1 2 4 6 7

Key: 6 | 2 means 62

- c) Make an ordered list of the 15 values in the stem and leaf plot.  
 d) Find least value, greatest value, mean, median, mode and range.

a) 62 66 67 70 75 82 83 86 87 88 91 92 94 96 97

b) Least value : 62

Greatest: value: 97

$$\text{Mean} = \frac{62+66+67+70+75+82+83+86+87+88+91+92+94+96+97}{15} = \frac{1236}{15} = 82.4$$

Median: 86

Mode no

Range: 97 - 62 = 35

15. The stem and leaf plot shows the heights of 10 students in cm.

Stem	Leaf
15	2 6 6
16	0 5
17	2 3 6 7 7

Key: 16 | 5 mean 165 cm

- b) Make an ordered list of the 10 values in the stem and leaf plot.

- b) Find least value, greatest value, median and range.

a) 152 156 156 160 165 172 173 176 177 177

b) Least value 152 cm    Greatest: value 177 cm    Median =  $\frac{165+172}{2} = 168.5$  cm

Range: 177 - 152 = 25 cm

# Stem and Leaf Plots Assignment

Use a back-to-back stem and leaf plot and answer the question.

16. The back-to-back stem-and-leaf plot shows the ages of the 10 people who took part in an aerobics class, and the ages of the 10 people who took part in a swimming class.

Aerobics Class	Stem	Swimming
7 7 4 3	1	4 7
4 4 2 0	2	0 1 5 6
1 0	3	1 4 5 7

Key: 3 | 1 | 4 means 13 and 14 years

- d) Make an ordered list.
- e) Use your diagram to identify the median in each case.
- f) Based on the data make one observation about the ages of the two groups.

a) Aerobics Class 13 14 17 17 20 22 24 24 30 31

Swimming Class 14 17 20 21 25 26 31 34 35 37

b) Aerobics Class Median =  $\frac{22+20}{2} = 21$  years

Swimming Class Median =  $\frac{25+26}{2} = 25.5$  years

- c) Older people tend to be in the Swimming class and young people tend to do the Aerobics class.