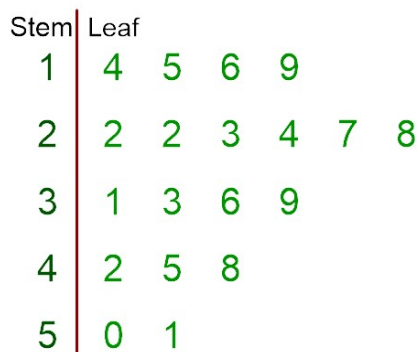


Stem and Leaf Diagrams

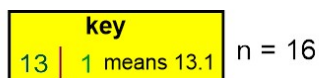
1. The stem and leaf to the right shows how much different shoppers spent to the nearest pound.
- Write down the people who spent Between £20 and £30.
 - What was the lowest amount spent?
 - What was the median value?
 - What is the modal value?
 - What is the range in spending?



2. The results of a Science experiment were recorded on a Stem and Leaf diagram as shown.

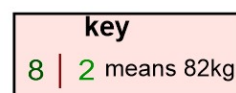
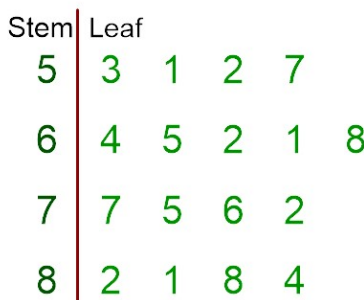


- Write down all the values from the Stem and Leaf diagram.
- What is the modal value?
- What is the median value?
- Calculate the range.



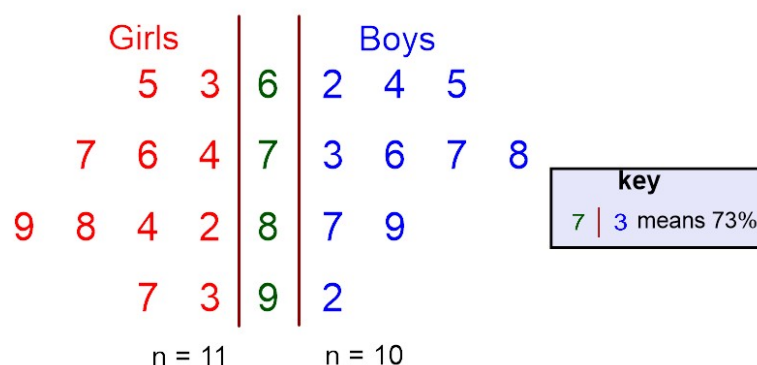
3. The Stem and Leaf diagram below shows the weights of a sample of different people. Unfortunately the numbers are not in the correct order!

- Draw the stem and leaf with the numbers arranged correctly.
- What is the median weight?
- What is the range of weights?
- What is the mean weight?



n = 17

4. The back to back stem and leaf diagram shows the test results of a Physics class.



- (a) What can you say about the girls score compared to the boys scores?
 (b) What was the median score for each group?
 (c) What was the mean score for each group?
 (d) There was a boy absent from the class who sat the test at a later date. When his result was added, the boys mean score decreased to 70%. What did he score?
5. Construct your own Stem and Leaf diagrams using the data shown below. Remember your key and "n" value.
- (a) 20, 24, 27, 30, 31, 33, 38, 41, 41, 43, 46, 49, 50, 54, 55, 56.
 (b) £121, £125, £127, £128, £133, £136, £138, £139, £145, £145, £147, £149, £150, £152.
 (c) 8.5, 11.1, 9.2, 9.5, 8.9, 10.3, 13.2, 11.5, 12.3, 12.6, 11.8, 9.1, 10.7.
6. (a) Draw a back to back Stem and Leaf diagram to represent the times for a 400m run comparing male and female runners.

Male: 41.3, 42.7, 41.8, 43.9, 42.5, 41.6, 45.7, 46.8
 Female: 44.8, 45.1, 45.7, 44.9, 45.0, 46.1, 46.3, 45.2

- (b) Make two valid comparisons about the runners.

