

# Stem and Leaf Plots (B)



Leave answers to 2 decimal places when necessary.

**Section A** Write down the range, mode, median and mean from the stem and leaf plot.

9	4	5	7
10	0	6	6 7 9
11	1	3	4 8
12	2	6	

Range =  
Mode =  
Median =  
Mean =

Key 9 | 3 means 93

7	1	1
8	2	2 2 5
9	0	9
10	3	8 8 9

Key 7 | 8 means 7.8

Range =  
Mode =  
Median =  
Mean =

**Section B** Put the numbers in the box into the stem and leaf plot and include a key.

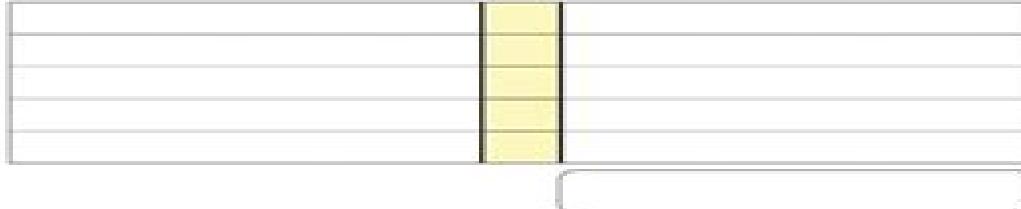

12.6 9.9  
10.2  
12.0 9.5 10.7  
12.4 9.6  
12.8 10.1 12.4


2.55 2.41  
2.58 2.45  
2.40 2.56  
2.63 2.49 2.58  
2.44 2.47

**Section C** Here are the weights of a group of children in two different classes. The weights are measured to the nearest kilogram. Complete the back to back stem and leaf plot.

Anisa's class	
30 kg	39 kg
32 kg	55 kg
42 kg	48 kg
34 kg	51 kg
57 kg	44 kg
36 kg	46 kg
36 kg	42 kg

Jo's class	
24 kg	48 kg
41 kg	32 kg
33 kg	29 kg
30 kg	47 kg
38 kg	34 kg
40 kg	46 kg
44 kg	35 kg



**Section D** The heights of a group of boys and girls are measured to the nearest hundredth of a meter. The heights are given below. Construct a back to back stem and leaf plot in the space below.

Boys	
1.47 m	1.33 m
1.51 m	1.58 m
1.42 m	1.46 m
1.39 m	1.50 m
1.44 m	1.61 m
1.46 m	1.35 m
1.49 m	1.52 m

Girls	
1.28 m	1.31 m
1.32 m	1.45 m
1.39 m	1.54 m
1.45 m	1.45 m
1.59 m	1.65 m
1.31 m	1.52 m
1.34 m	1.38 m

Compare and compare the heights of the group of boys and girls.

**Extension** For Section C, calculate what percentage of Anisa's class weigh more than the mean.

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**Science Materials Center, New York**

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web a dfs based algorithm computes the connected components time complexity is  $O(n^e)$  where n and e are number of nodes and edges respectively s c graphconncomp g weak weakvalue indicates whether to find weakly connected components or strongly connected components

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web mar 29 2020 what is connected component labeling visualization of an example code in matlab what is connected component labeling this is a computer vision algorithm to detect and count the number of connected regions also called blobs in a binary image often this is done after a segmentation algorithm

**connected component labelling through matlab github** - Jun 07 2022

web may 16 2019 this is a matlab function that utilises the image processing toolbox to convert any image to its edge image using canny algorithm and then label connected components in it the whole labelling algorithm is in a function that you can apply to any image the edge image goes through the labelling algorithm and final image is displayed

**connected component labeling file exchange matlab** - Mar 16 2023

web feb 10 2014 this function is partly based on the two pass algorithm described here en wikipedia org wiki connected component labeling i did not make use of the disjoint data set structure at least that i am aware of to connect the linked labels