

11.	Stem	Leaf	Stem: tens digit with L and H Leaf: ones digit
	6L	4 3 0	
	6H	7 6 9 6 8 9	
	7L	4 2 0 1 4 2 0 2	
	7H		
	8L	0 1 1 2 1 1 4 1 0 3 4 2	
	8H	9 5 9 5 5 7 8	
	9L	3 0	
	9H	5 8	

Feature: No students scored 75 to 80 points, 80-85 points are the most students. ~~Most students score~~

14. a.	Stem	Leaf	Stem: ones digit leaf: one decimal place down
	2	2 3	
	3	4 7 3 9 5 4 2 8	
	4	6 0 8 3 8 1 5 9	
	5	1 1 6 8 0 0 4 5 4 0 6 1 6 5 9 7 0	
	6	7 9 4 2 6 4 5 3 2 0 9 6 1 0 7 2 4 6 8 9 2 0 3 0	
	7	1 0 5 5 6 3 5 5 6 2 2 4 3 0 5 8 0	
	8	0 8 2 4 4 3 2	
	9	2 6 8 3 2 0 5 3 7 6 3 6 3 8 1	
	10	5 4 8 3 4 2 5 4 6	
	11	5 2 3 9 3 9	
	12	3 7	
	13	8	
	14	3 6	
	15	0 3 5 0	



16
17
18 9

b. The typical flow rate is in the 6th row
it is 62.

c. It is highly concentrated

d. NO. it isn't symmetric.

The data showed double peaks in stem 6 and 9

e. Yes. the 18.9 is an outlier.

20. Stem leaf

Stem: thousands digit

Leaf: hundred digit and tens, ones digit

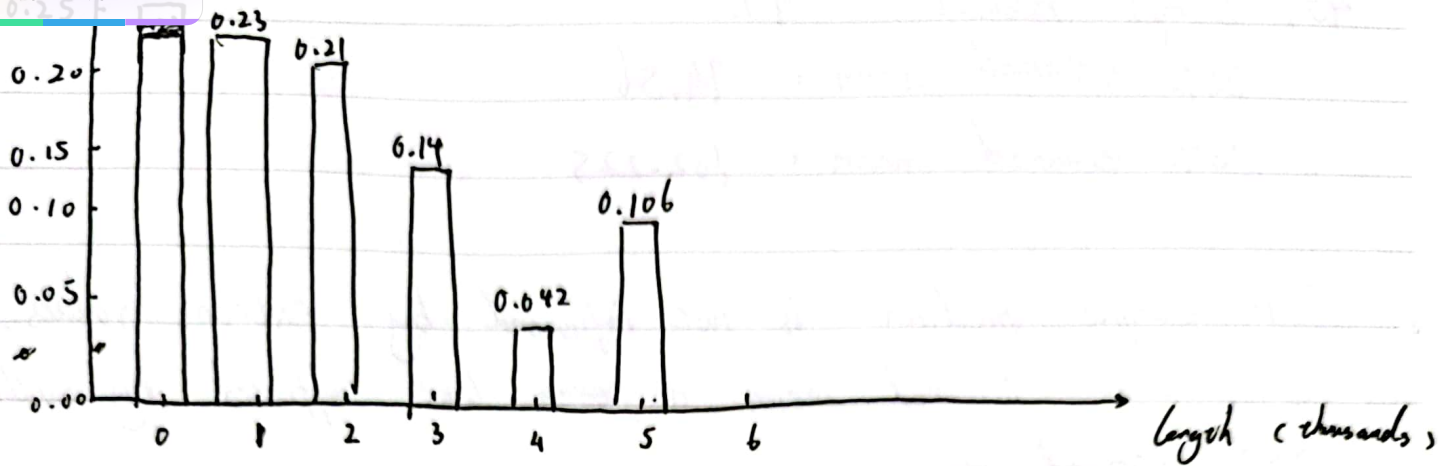
0	360	340	960	530	540	960	450	500	100	510	240	396
1	280	240	50	0	320	280	120	850	670	890	410	
2	100	400	120	250	320	400	460	700	730	109		
3	60	630	380	350	870	150	180					
4	390	770										
5	320	700	220	850	770							

a. Stem 0 has the largest amount of length with ^{the number of} 12

Stem 4 has the minis with amount of 2.

Most of length is between 0 km ~ 4 km.





Portion less than 2000 : 0.489

Portion Between 2000 ~ 4000 : 0.361

Shape : double peaks in term 0 and 5.

1.3

34. a. (i) U: 21.54

(ii) F: 8.56

The data of 11 cities and 15 rural areas were counted and their average values were calculated, respectively. Compare the average pollution level of the areas.

b. U: 17.0

F: 8.9

By finding the median value compare the pollution.

c. trimming percentages U: 9%

means medians F: 6%

U: 17

F: 8.73

8.9



40. Sample median: 92
25% trimmed mean: 74.56
10% trimmed mean: 102.225 ✓

The sample median is not influenced by extrem values.
The 10% trimmed mean is ~~even~~ less affected by outliers than 25% trimmed mean.

1.4.

44. a. The sample range: ~~10.4~~ 25.8 ✓

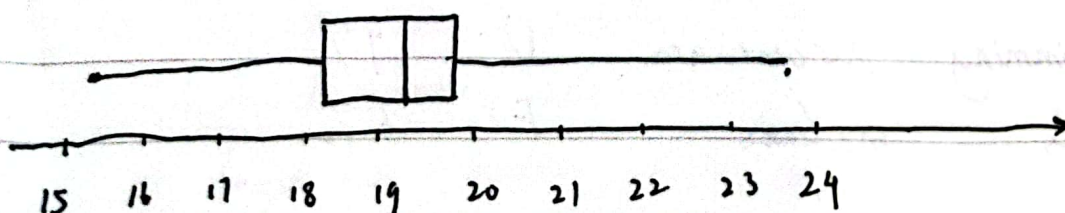
b. $\bar{x} = 31.03$

$$s^2 = \frac{1.53^2 + 18.27^2 + 0.43^2 + 2.83^2 + 3.03^2 + 4.73^2 + 1.63^2 + 2.87^2 + 7.53^2 + 0.57^2}{10 - 1} \approx 49.3$$

c. $s \approx 7.021$

$$d. s^2 = \frac{s_{xx}}{n-1} = \frac{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}{n-1} = \frac{10072.4 - \frac{310.3^2}{10}}{9} \approx 49.311 \quad \checkmark$$

56. smallest x_i : 15.30 largest x_i : 23.78
median: ~~19.97~~ ^{19.20} lower forch: 18.34 upper forch: 19.76



B+

