## **Stem & Leaf Diagrams**

## **Exercise 1**

- 1) This stem and leaf diagram shows the distance travelled by a taxi on different hires.
  - Write out level 3 in full. a)
  - b) How many journeys are shown?
  - What is the second longest journey? c)
  - If journeys of length 25 km or less are d) classed as Type A journeys, How many journeys were there?

This stem and leaf diagram shows the distance travelled by a taxi on different hires.			km travelled
a)	Write out level 3 in full.	0	56
b)	How many journeys are shown?	1	378
c)	What is the second longest journey?	2	2289
d)	If journeys of length 25 km or less are classed as Type A journeys, how many Type A journeys were there?	3 4	4 2 3
		n : 2	= 12 1 represents 21 km

2)

- **3)** This stem and leaf diagram shows the distance travelled by a taxi on different hires.
  - a) Write out level 3 in full.
  - **b)** How many journeys are shown?
  - c) What is the second longest journey?
  - d) If journeys of length 25 km or less are classed as Type A journeys, how many Type A journeys were there?



4)	This stem and leaf diagram shows the
	concentration level of a chemical in a
	number of samples

- a) Write out level 7 in full.
- b) A level of 85 or below is safe. How many safe samples are there?
- c) How many samples were unsafe?
- d) What is the average concentration of the safe samples?

units of chemical		
6	8	
7	237	
8	488	
9	18	
10	3468	
11 2 5		
n = 15		
8 1 represents 81 units		

5) This stem and leaf diagram shows the concentration level of a chemical in a number of samples

- a) Write out level 7 in full.
- **b)** A level of 85 or below is safe. How many safe samples are there?
- c) How many samples were unsafe?
- **d)** What is the average concentration of the safe samples?



6) This stem and leaf diagram shows the concentration level of a chemical in a number of samples

- a) Write out level 7 in full.
- **b)** A level of 85 or below is safe. How many safe samples are there?
- c) How many samples were unsafe?
- **d)** What is the average concentration of the safe samples?



units of chemical			
3	6		
4	589		
5	234 479		
6	0138		
7	259		
8	38		
9	4		
n = 20			
8 4 represents 84 units			

- 7) The times, in seconds to run a race for competitors is given in the stem and leaf diagram.
  - a) What was the winning time?
  - **b)** How many sub 10 second times were there??
  - c) What percentage of the competitors had a time of less than 12 secs?
  - d) Write out level 10 in full.



time (seconds)		
9	89	
10	278	
11	5689	
12	0238	
13	7	
•		
n = 14		
11 9 represents 11·9 seconds		

time (seconds)		
8	9	
9	28	
10	4667	
11	056	
12	34588	
13	278	
ı		
n = 18		
116 represents		
11.6 seconds		

- 8) The times, in seconds to run a race for competitors is given in the stem and leaf diagram.
  - a) What was the winning time?
  - **b)** How many sub 10 second times were there??
  - c) What percentage of the competitors had a time of less than 12 secs?
  - d) Write out level 10 in full.

