Data Processing - Level 5-6

Data can be represented in many ways, one useful way is to represent it as a graph or chart.

Keywords:
• Chart
• Graph
• Data
• Stem

Stem and Leaf Diagrams

Stem and leaf diagrams are useful for displaying small to medium amounts of numerical data.
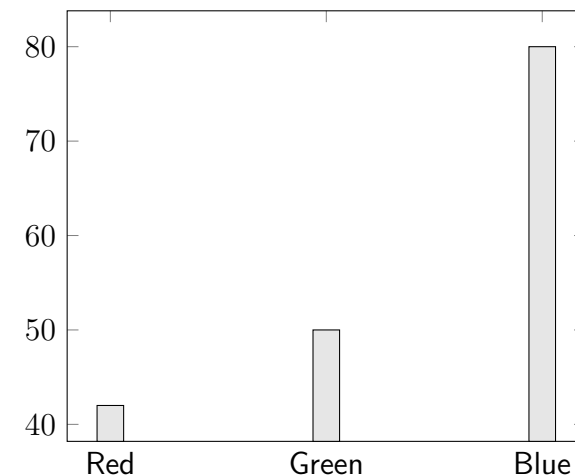
For example, in the stem and leaf diagram below, you can see some test results. By looking at the length of the row of numbers, you can tell how many results fall in to each range.

A very important part of the stem and leaf diagram is the key, this tells you how to interpret the data in the diagram.
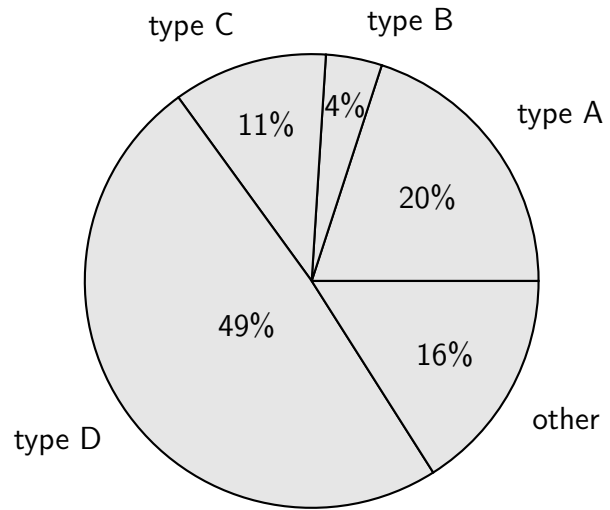
Table 1: Stem Plot of test results Key: $1|1 = 11$

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

Bar Charts

Bar charts are another way of representing data, here the chart below represents the number of different colour cars that passed a point on a road over a hour.

Pie Charts

type C   type B

11%   4%   type A

20%

49%

16%

type D   other

Questions

TODO