## 10.2 stem-and-leaf Diagrams

Data values can be grouped and presented in a stem-and-leaf diagram which looks like a histogram. In such a diagram, the more significant digit(s) of each data value is extracted to form a stem, while the next significant digit of individual data values are displayed as leaves against the corresponding stems.

Example 2 The marks of 20 students in a test are as follows:

The most significant digit in a number is the first non-zero digit (reading from left to right).

Represent the data using a stem-and-leaf diagram.

## Solution



To start a stem-and-leaf diagram, we have to determine the stem and leaf units.

In this example, since the data values are two-digit numbers, we take the tens digit of each value to be the stem and the units digit to be the leaf. For example, for the value 62,6 is the stem and 2 is the leaf.


