

2.3 Exploratory Data Analysis:

Stem-and-leaf display is a useful exploratory data analysis tool which can provide an idea of the shape of the distribution of a set of quantitative data.

Example 1:

Suppose the following data are the midterm scores of 10 students,

17, 22, 93, 82, 95, 87, 66, 68, 71, 52.

Then, the stem-and-leaf display is

```

 1 | 7
 2 | 2
 3 |
 4 |
 5 | 2
 6 | 6 8
 7 | 1
 8 | 2 7
 9 | 3 5

```

Example 2:

You are given the following data on the ages of employees at a company. Construct a stem-and-leaf display. Specify the leaf unit for the display.

26 32 28 45 58
52 44 36 42 27
41 53 55 48 32
42 44 40 36 37

[solution:]

Leaf Unit = 1

```

 2 | 6 7 8
 3 | 2 2 6 6 7
 4 | 0 1 2 4 4 5 8
 5 | 2 3 5 8

```

Online Exercise:

Exercise 2.3.1