General

<u>Stem-and-Leaf Diagrams</u>

1.   A sample of tomato plants are measured for height. Their heights are recorded
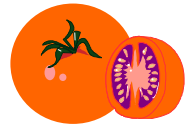   to the nearest centimetre.
      The stem-and-leaf diagram shows the results.

Height of Plant (cm)

      (a)   How many plants were in the sample?
      (b)   What height is the tallest plant?
      (c)   Write out level 5 in full.
      (d)   What fraction of the plants were more
             than 50cm tall?

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2 | 1 3
3 | 0 2 2 7
4 | 4 5 6 8 9 9
5 | 6 7 9
6 | 3
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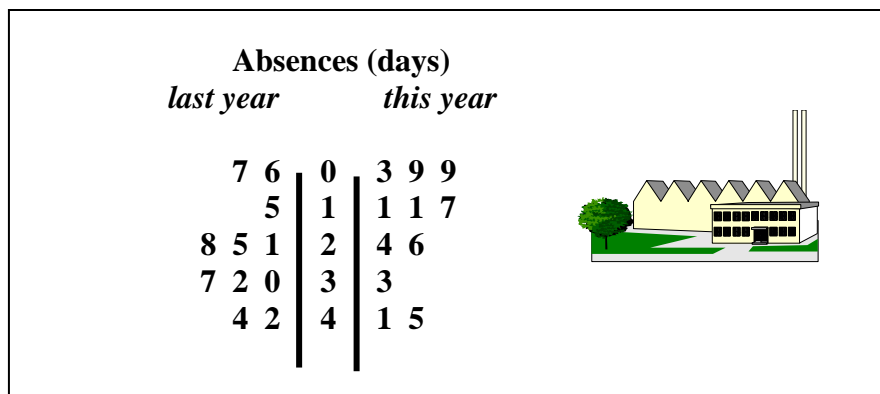
2.   Susan decided to visit various shops in her surrounding area in order to
      compare the price of an identical CD player.
      Her results, shown below, are given to the nearest pound.

      £68   £75   £73   £80   £75   £79   £81   £66   £71
£92   £83   £75   £78

      Construct a stem-and-leaf diagram to represent this data.

3.   A factory has a small workforce of eleven people. The owner decides to
      compare absence rates (in days) over the last two years.
      The results are shown in the back-to-back stem-and-leaf diagram below.

Absences (days)
last year   *this year*

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      7 6 | 0 | 3 9 9
        5 | 1 | 1 1 7
    8 5 1 | 2 | 4 6
    7 2 0 | 3 | 3
      4 2 | 4 | 1 5
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(a)   What is the largest number of absences recorded?

(b)   What is the smallest number of absences recorded last year?

(b)   State the median of the absences for "*last year*" and "*this year*".

(c)   Compare the absences and comment.