Stem and Leaf

How to . . .

Here are the ages, in years, of 15 students

19	18	20	25	37
33	21	17	29	20
42	18	23	37	22

Show this information in an ordered stem and leaf diagram.

Use this space here for a "rough" version

1	9 8 7 8
2	0 5 1 9 0 3 2
3	7 3 7
4	2

I like to check I have the correct number of numbers.
- I have 15 here ✓

Always, always, always complete a key even if you don't have a 'box'

1	7 8 8 9
2	0 0 1 2 3 5 9
3	3 7 7
4	2

Key: 1|7 = 17

The "ordered" version is used to find your averages

(3)

Now have a go yourself . . .

Q1. Here are the times, in minutes, taken to solve a puzzle.

5	10	15	12	8	7	20	35	24	15
20	33	15	24	10	8	10	20	16	10

In the space below, draw a stem and leaf diagram to show these times.

Find the median time to solve this puzzle.

Q2. Jim did a survey on the lengths of caterpillars.

Information about the lengths is given in the stem and leaf diagram.

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

Key: 5|2 means 5.2cm

a) Work out the median. ..... cm

b) Work out the range. ..... cm

c) Work out the mode. ..... cm

d) Work out the inter-quartile range ..... cm

Exam Question

.The numbers below list the ages of the members of a tennis club.

71	39	40	16	57	12	63	34	41	45	65
27	16	59	40	60	14	22	48	43	38	52
35	23	25	52	36	38	26	31	27	17	16

a) Construct a stem and leaf diagram with these ages.

b) Use it to find the following:

How many members the club has.

The modal age of the members.

Their median age.

The range of their ages.

The fraction of members who are over 40.

(8)

Ready to be marked ?

Checklist

- ☐ Order correct
- ☐ Key included

Keywords

Things to remember …

What went well …

Teacher comment ..