

Stem and Leaf

How to ...

Sixteen babies are born in a hospital.

Here are the weights of the babies in kilograms.

2.4 2.7 3.5 4.4 4.5 4.1 4.4 2.8

4.1 3.8 3.8 4.2 3.3 3.0 3.7 3.3

Show this information in an ordered stem and leaf diagram.

16 numbers

Use this space for a 'rough' version

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

16 numbers ✓

check!!

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

Key:

4 | 5 = 4.5 kg

You must include (3) a key

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 Questions

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

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Things to remember ...

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What went well ...

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Teacher comment ..