GCSE FOUNDATION · REVISION MAT 3

Stem-and-leaf diagrams

1 The stem-and-leaf diagram shows some test scores.

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

Key: 2 | 3 means 23

(a) Find the median.

(b) Find the range.

2 Here are some times, in minutes.

52, 47, 61, 55, 43, 58, 66, 49, 51, 60

Draw an ordered stem-and-leaf diagram. Include a key.

3 The stem-and-leaf diagram shows some test scores.

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

Key: 2 | 3 means 23

Dev says the highest score is 3.

Explain why Dev is wrong.

4 The stem-and-leaf diagram shows some test scores.

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

Key: 2 | 3 means 23

Show that the mode is 34.

5 The diagram shows the scores of group A.

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

Key: 2 | 3 means 23

Group B has a median of 35 and a range of 22.

Compare the two groups.

6 The stem-and-leaf diagram shows some test scores.

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

Key: 2 | 3 means 23

What percentage of the scores are more than 40? Give your answer to the nearest whole number.

Mr&Mrs MATHS

1 (a) 11 values, middle is value 6: **37**

(b) 53 – 23 = **30**

2

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

Key: 4 | 3 means 43

3 Dev has read only the leaf. The stem gives the tens.

Highest score = **53**

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Stem-and-leaf diagrams

4 **34** appears twice; every other value appears once ✓

5 Group A: median 37, range 30

Group **A** has the higher median, so did better on average.
Group **B** has the smaller range, so is more consistent.

6 5 out of 11

5 ÷ 11 × 100 = **45%**

Mr&Mrs MATHS