GCSE FOUNDATION · REVISION MAT 5

Frequency tables

1 Here are the numbers of brothers and sisters.

1, 2, 2, 3, 1, 2, 4, 2, 3, 2
1, 2, 3, 2, 5, 2, 3, 1, 2, 2

Complete a frequency table for the data.

2 The table shows the number of brothers and sisters.

Value	2	3	4	5	6
Frequency	6	9	12	2	1

(a) Write down the mode.

(b) Work out the range.

3 The table shows the number of brothers and sisters.

Value	2	3	4	5	6
Frequency	6	9	12	2	1

Kay says the mode is 12.

Explain the mistake Kay has made.

4 The table shows the number of brothers and sisters.

Value	2	3	4	5	6
Frequency	6	9	12	2	1

Show that the mean is 3.43, correct to 2 d.p.

5 The table shows some marks.

Mark	100–109	110–119	120–129	130–139	140–149
Frequency	5	9	11	10	5

(a) Write down the modal class.

(b) Which class contains the median?

6 20 people were asked a question. One frequency is missing.

Value	2	3	4	5
Frequency	2	9	?	4

(a) Find the missing frequency.

(b) Work out the mean.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Frequency tables

1

Value	1	2	3	4	5
Frequency	4	10	4	1	1

2 (a) **4**

(b) 6 – 2 = **4**

3 12 is the highest frequency. The mode is the value with the highest frequency: **4**

4 Total = 2×6 + 3×9 + 4×12 + 5×2 + 6×1 = 103

103 ÷ 30 = **3.43** ✓

5 (a) **120–129**

(b) 40 values, the median is the 20.5th: **120–129**

6 (a) 20 – 15 = **5**

(b) 71 ÷ 20 = **3.55**