GCSE FOUNDATION · REVISION MAT 4

Range and spread

1 Work out the range of these numbers.

−3, 4, −6, 2, 7, −1

2 Here are some numbers.

150, 162, 158, 155, 410, 160

(a) Which number is an outlier?

(b) Work out the range without the outlier.

3 Gus and Hal both have a mean of 41 goals per season.
Gus's range is 12. Hal's range is 3.

Explain what the ranges tell you.

4 The range of four numbers is 32. The smallest number is 15.

Three of the numbers are 30, 22, 41

Show that the fourth number is 47.

5

	Median	Range
Year 9	47	25
Year 10	52	40

Write two comparisons between the two groups.

6 Four whole numbers have

mode 2, median 4, mean 5 and range 8.

Find the four numbers.

Mr&Mrs MATHS

1 $7 - (-6) = \mathbf{13}$

2 (a) **410**

(b) $162 - 150 = \mathbf{12}$

3 **Hal** has the smaller range, so is **more consistent**.
The other player's results are more spread out.

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Range and spread

4 Largest = $15 + 32 = \mathbf{47}$ ✓

(It must be the largest, since none of the others is 47.)

5 **Year 10** has the higher median, so higher on average.

Year 9 has the smaller range, so is more consistent.

6 Two numbers are 2 (mode); median 4 gives the third: 6

Range 8 gives the largest: 10

2, 2, 6, 10 (total $20 = 4 \times 5$ ✓)