GCSE FOUNDATION · REVISION MAT 3

# Range and spread

**1** Work out the range of these numbers.

105, 98, 112, 120, 101, 95

**2** Here are some numbers.

8.1, 7.9, 8.4, 2, 8.2, 8

(a) Which number is an outlier?

(b) Work out the range without the outlier.

**3** Eva and Fay both have a mean of 3.2 jump distances (m).
Eva's range is 0.3. Fay's range is 1.1.

Explain what the ranges tell you.

**4** The range of four numbers is 9. The smallest number is 2.5.

Three of the numbers are 6, 4.5, 9

Show that the fourth number is 11.5.

**5**

| | Median | Range |
|---|---|---|
| Boys | 152 | 30 |
| Girls | 155 | 18 |

Write two comparisons between the two groups.

**6** Four whole numbers have mode 8, median 9, mean 10 and range 6.

Find the four numbers.

Mr&Mrs MATHS

**1** 120 – 95 = **25**

**2** (a) **2**

(b) 8.4 – 7.9 = **0.5**

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

ANSWERS · REVISION MAT 3

# Range and spread

**4** Largest = 2.5 + 9 = **11.5** ✓

(It must be the largest, since none of the others is 11.5.)

**5** **Girls** has the higher median, so higher on average.

**Girls** has the smaller range, so is more consistent.

**6** Two numbers are 8 (mode); median 9 gives the third: 10

Range 6 gives the largest: 14

**8, 8, 10, 14** (total 40 = 4 × 10 ✓)