GCSE FOUNDATION · REVISION MAT 3

Averages

1 Here are some numbers.

6, 3, 8, 6, 2, 9, 6, 4, 10

Find

(a) the mode (b) the median (c) the mean

2 Find the median of these numbers.

4.5, 2.1, 3.8, 5.2, 1.9, 4

3 Liv says the median of 21, 30, 18, 25, 19 is 18, because it is in the middle.

Explain the mistake Liv has made.

4 The mean of 4 numbers is 15.

3 of the numbers are 12, 18, 14

Show that the missing number is 16.

5 The mean of Sam's first 8 test scores is 55.

After one more test, his mean is 57.

What did Sam score in the last test?

6 Here are the long jumps (m).

Ali: 3.2, 3.5, 3.4, 3.3, 3.6

Ben: 2.8, 4.1, 3.9, 2.9, 3.8

Compare the two sets of data.
Use the mean and the range.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Averages

1 (a) **6**

(b) ordered: 2, 3, 4, 6, 6, 6, 8, 9, 10
median = **6**

(c) 54 ÷ 9 = **6**

2 Ordered: 1.9, 2.1, 3.8, 4, 4.5, 5.2

Median = **3.9**

3 The numbers must be put in order first: 18, 19, 21, 25, 30

Median = **21**

4 Total = 4 × 15 = 60

60 − 44 = **16** ✓

5 Total before: 8 × 55 = 440
Total after: 9 × 57 = 513

Last test = **73**

6 Ali: mean 3.4, range 0.4
Ben: mean 3.5, range 1.3

Ben has the higher mean; **Ali** is more consistent (smaller range).