GCSE FOUNDATION · REVISION MAT 4

Averages

1 Here are some numbers.

21, 18, 25, 18, 22, 19, 18, 23

Find

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

2 Find the median of these numbers.

62, 55, 70, 48, 66, 59, 51, 73

3 Max says the median of 5, 11, 2, 8, 6 is 2, because it is in the middle.

Explain the mistake Max has made.

4 The mean of 5 numbers is 20.

4 of the numbers are 17, 24, 19, 22

Show that the missing number is 18.

5 The mean of Sam's first 4 test scores is 80.

After one more test, his mean is 78.

What did Sam score in the last test?

6 Here are the test scores.

Class A: 70, 74, 72, 71, 73
Class B: 60, 85, 80, 62, 78

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Averages

1 (a) **18**

(b) ordered: 18, 18, 18, 19, 21, 22, 23, 25
median = **20**

(c) 164 ÷ 8 = **20.5**

2 Ordered: 48, 51, 55, 59, 62, 66, 70, 73

Median = **60.5**

3 The numbers must be put in order first: 2, 5, 6, 8, 11

Median = **6**

4 Total = 5 × 20 = 100

100 − 82 = **18** ✓

5 Total before: 4 × 80 = 320
Total after: 5 × 78 = 390

Last test = **70**

6 Class A: mean 72, range 4
Class B: mean 73, range 25

Class B has the higher mean; **Class A** is more consistent (smaller range).