

Q Combined Mean

- 2 This is a list of 8 numbers.

11 7 8 13 7 14 15 5

- (a) Find the median.

..... [2]

- (b) An extra number is added to the list.
The mean of the nine numbers is 1 more than the mean of the eight numbers.

Find the ninth number.

..... [3]

- (b) Paulo's mean mark for 7 homework tasks is 17.
After completing the 8th task, his mean mark is 17.5 .

Calculate Paulo's mark for the 8th task.

..... [3]

- 8 The mean of eight numbers is 25.
When two extra numbers are included the mean of the ten numbers is 24.

Find the mean of the two extra numbers.

..... [2]

- 7 5 numbers have a mean of 12.
When a 6th number is included the mean is 9.

Work out the 6th number.

..... [2]

- 6 The mean of 5 numbers is 12.
The mean of 3 of these numbers is 8.

Find the mean of the other two numbers.

..... [3]

- 11 (a)** The range of ten numbers is 30.
The range of eight other numbers is 13.

Find the smallest possible value of the range of all eighteen numbers.

..... [1]

- (b)** The mean of twelve numbers is 25.
The mean of ten of these numbers is 16.

Find the mean of the other two numbers.

..... [2]

- 10** Aisha picks three number cards from a pack.

The mean of the three numbers is $6\frac{1}{3}$.

She picks another card from the pack.

The mean of the four numbers is $6\frac{1}{2}$.

Work out the number on the fourth card.

..... [3]