Averages and Range Revision

(a)

Find the mode and range of the set of numbers:
$$6, 2, -3, 6, 8, 7, 4$$

(b)

Find the mean and median of the set of numbers:
$$4.4, 2.7, 8.1, 3.6, 7.6, 4.8$$

(c)

The mean of the following set of numbers is 6.
$$7, 5, 9, x, 2, 2, 5, 7$$
Find the value of x.

(d)

Three positive integers have a mean of 4 and a range of 7. Find the three numbers.

(e)

Kai got the following scores in his tests:
$$9, 13, 7, 15, 14, 11, 8$$
Find the interquartile range.

(f)

In a class of 30 students, the mean height of the 12 girls is 164 cm and the mean height of the 18 boys is 166 cm. Find the mean height of the whole class.

(g)

The mean of five numbers is 3.6. The number 6 is added to these numbers. Find the mean of all six numbers.

(h)

Find the modal number of pets from the frequency table.

Number of Pets	Frequency
0	6
1	7
2	5
3	2

(i)

The table shows the number of goals scored in 40 games.

Number of goals	Frequency
0	11
1	17
2	8
3	4

Find
(a) the median number of goals

(b) the mean number of goals

(c) the range of the goals

(j)

The table shows the distance in km to school for 50 students.

Distance	Frequency
$0 < d \leq 5$	14
$5 < d \leq 10$	20
$10 < d \leq 15$	10
$15 < d \leq 20$	6

Find
(a) an estimate of the mean distance

(b) the modal class