AVERAGES

Task 1 – For each of the following questions, work out the mean, median, mode and range of:

1) 4, 6, 8, 10, 12

2) 3, 7, 7, 9, 11

3) 5, 9, 12, 15, 20

4) 2, 4, 6, 8, 8

5) 10, 15, 20, 25, 30, 35

6) 7, 12, 12, 18, 21, 21, 21

7) 1, 4, 4, 4, 9, 11, 15

8) 5, 7, 8, 12, 15, 18, 20, 22

9) 3, 6, 6, 9, 12, 15, 15, 18, 21

10) 14, 14, 15, 16, 17, 20, 22, 25, 25, 30

Task 2

11) The mean of 5 numbers is 12. Four of the numbers are 10, 8, 15, and 13. Find the missing number.

12) The mean of 8 numbers is 6. Seven of the numbers are 5, 8, 7, 4, 3, 9, and 6. Find the missing number.

13) The mean weight of 6 boxes is 20 kg. If 5 of the boxes weigh 18 kg, 22 kg, 19 kg, 25 kg, and 15 kg, find the weight of the last box.

14) The mean score of 10 students is 72. The total score of 9 students is 650. Find the score of the 10th student

15) The mean of 6 numbers is 15. If one number is removed, the mean of the remaining 5 numbers becomes 14. Find the number that was removed.

16) The mean of 5 numbers is 18. If another number is added, the new mean becomes 17. Find the number that was added.

17) The mean of a group of 4, year 7 pupils is 15. The mean of a group of 6, year 8 pupils is 18. What is the mean of the combined group?

18) The mean of 12 test scores is 65. The mean of 8 of those scores is 70. Find the mean of the remaining 4 scores.

Challenge

19) The mean of 5 numbers in ascending order is 6.2. The numbers satisfy the following:

- The first number is even.

- The mode is 3.

- The range is 15.

Find a possible set of numbers.

20) Two classes take a maths test. Class A has 15 students with a mean score of 68. Class B has 25 students with a mean score of 74. One student joins Class A, and the combined mean of the classes is now 72. What did the new student score?