Problem Solving with Averages and Range – www.m4ths.com – Steve Blades ©

(1) Find the mean, mode, median and range of each set of numbers below:

(a) 4, 3, 2, 8, 7, 2, 5   (b) 1, 2, -1, 0, 3, 4   (c) 1.6, 2.4, 3.8, 1.2, 0.6, 1.6

(2) Add one more number to 4, 3, 6 and 2 to give the five numbers a mean of 6.

(3) Add one number to the list such that the median is four: 8, 3, 2,

(4) Find 5 DIFFERENT numbers such that: The range is 10 and the median is 6.

(5) Find any 4 numbers that have no mode but have a mean of 5

(6) Find any 4 numbers where one is negative, the range is 15 and the mode is 1.

(7) Find any 4 numbers that have a median of 4, a mean of 10 and a mode.

(8) One more number is added to the numbers 6, 4, 8 and 2. The range of the 5 numbers is 15. Find the two possible numbers that could have been added.

(9) Add one number to the list 6, 8, 3, 2, 5 such that there is now a mode.

(10) Find 3 numbers that are all negative and have a range of 8

(11) John must average 48% in 6 tests to get into college. He scores 32% in the first, 18% in the second, 24% in the 3rd, 40% in the fourth and 38% in the 5th. Can he still get into college with his 6th test?

(12) Which 3 numbers have a mode of 6 and a mean of 5?

(13) In a class there at 4 people. The mean height of the 4 people is 1.6m. One person leaves and the mean height is now 1.58m. How tall was the person who left?

(14) Find 2 numbers with a median of 4.4

(15) A football team plays 30 games in a season and their average goals per game is 2.8. How many goals did they score in the season?

(16) The 4 numbers 6, 3, 7 and x have a median of 5.2. What is the value of x?

(17) Find 6 numbers that have a mean of 7 a range of 14, no negative numbers, no mode and a median of 7.

(18) The numbers 6, 3, 4, 7.2 and n have a mean of 5. What is n?

(19) In June the average daily rainfall was 1.8mm. How much rain fell in June?

(20) Find 3 numbers that have a mean of 0 and no mode.