

M, M and M

How did I find a solution?

Mean = 4 = Add all numbers together and divide by how many there are ($20/5=4$)

Median=3= Number in the middle of the set

Mode=3= Number that appears most often (At least twice in this set)

3 = the second number each time and the middle number in the set each time.

Work out highest positive number that could be in the set so that the remaining 3 numbers total 20 = 11

Working from 11 down to 1 as the starting number and always having 3 as the next two numbers, use number bonds facts to work out the final 2 numbers needed to make the whole total 20

Once found all the solutions, look for any repeated sets and take out the duplicates

11 sets are therefore left which is also the highest single positive number that can be used in a set.

The sets with the properties Mean = 4, Median = 3 and Mode = 3

11 3 3 1 2

10 3 3 1 3

9 3 3 4 1

9 3 3 3 2

8 3 3 5 1

8 3 3 4 2

8 3 3 3 3

7 3 3 6 1

7 3 3 5 2

7 3 3 4 3

6 3 3 5 3