

## Can you find sets of positive integers that satisfy the following?

1. Three numbers with mean 3 and mode 2
2. Three numbers with mean 7 and mode 10
3. Three numbers with mean 8, median 10 and range 8
4. Four numbers with mean 7.5, mode 6 and median 7
5. Four numbers with mean 6, median 6.5 and range 11
6. Five numbers with mean 4, mode 3 and range 9
7. Five numbers with mean 4, mode 2 and range 6  
(two possible solutions)
8. Five numbers with mean 7, mode 7 and range 10  
(three possible solutions)

## Extension

Can you find a set of four numbers with mean 4, mode 1, median 2 and range 10?

How about a set of five numbers?  
Or six numbers?

Or...?  
Or 100 numbers?