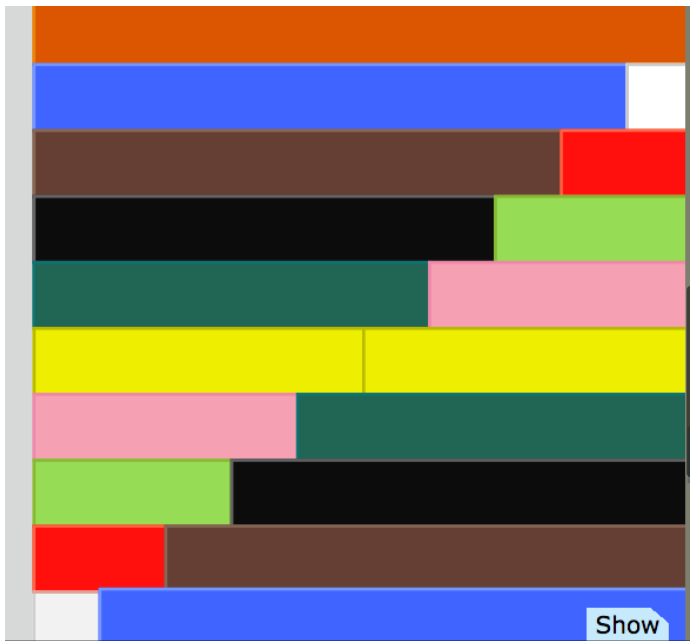


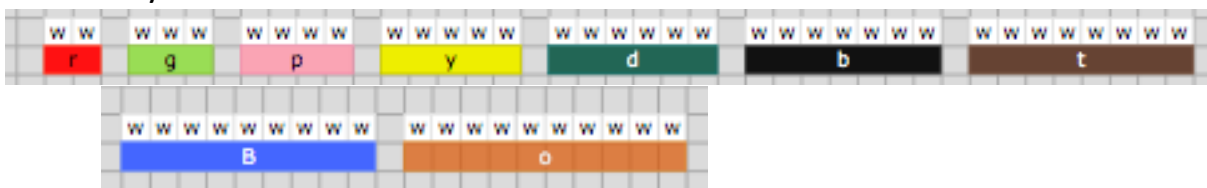
## Rod Fractions

I found that when you compared the sizes of both the orange and the white, the former was ten times the size of the white, while the blue was nine times the size, the brown eight times the size, the black was seven times the size and it followed on in diminishing order of size of the rods.



Above, I have drawn a diagram of this. Like on an abacus, the rods meet at the middle but otherwise each rod pairs with a rod of an alternate colour, with the exception of the yellow block to pair to ten.

A good way to know the proportion of one rod to the next is by putting the white rods, which demonstrate one increment, next to the block and seeing how many of the white blocks fit in the same frame.



This shows that each is in proportion to white blocks. Additionally, the coloured blocks can make up their multiples, but not their factors. For example, one is a factor of every number, but no number can make up one as one is a factor, and never a multiple.