**Answer – Problem number 1 magic Vs**

If we have the numbers 1, 2, 3, 4 and 5, and our goal is to arrange all 5 numbers in a way such that the 2 'arms' have the same total. If we get the total of all the give numbers, we get 15. In the middle, we must have an odd number, because if we have an even, say 2, 15-2=13 and 13 is not divisible among the other 2 circles of arms. If we pick 1 as the middle,
then each side is required to have a total of 7 on the other 2 circles. For 3, we need a total of 6 on the 2 circles, and for 5, we need a total of 5 on the other 2 circles. Thanks for the question, Nrich. ( which was published at http://bit.ly/2pCieMH)
5,2,1,3,4   5,2,1,4,3   2,5,1,3,4   2,5,1,4,3   3,4,1,5,2   3,4,1,2,5
4,3,1,5,2   4,3,1,2,5   1,5,3,2,4   1,5,3,4,2   5,1,3,2,4   5,1,3,4,2
2,4,3,1,5   2,4,3,5,1   4,2,3,1,5   4,2,3,5,1   1,4,5,2,3   1,4,5,3,2
4,1,5,2,3   4,1,5,3,2   2,3,5,1,4   2,3,5,4,1   3,2,5,1,4   3,2,5,4,1

**Answer – Problem number two**

You should try to use a systematic method. For example, if the Red ball landed first there are two ways that it could land RGB or RBG. Then if the Green landed first there are two other options GRB or GBR

Then if the Blue landed first another two options BRG and BGR