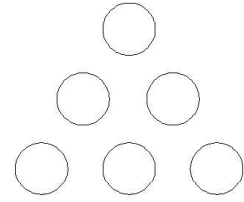
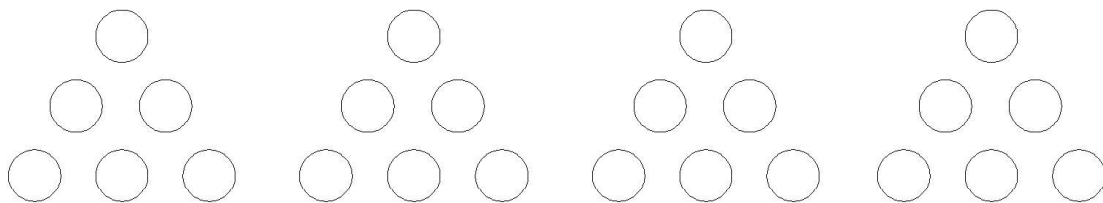
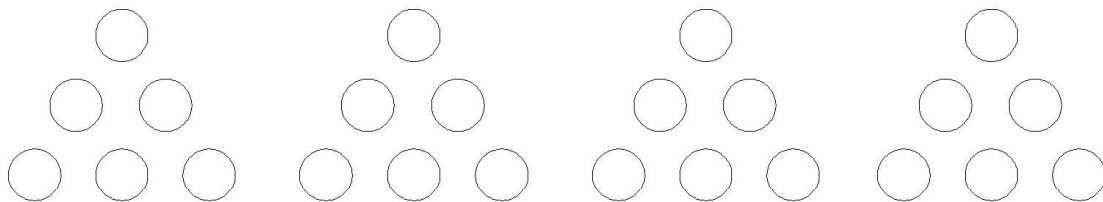
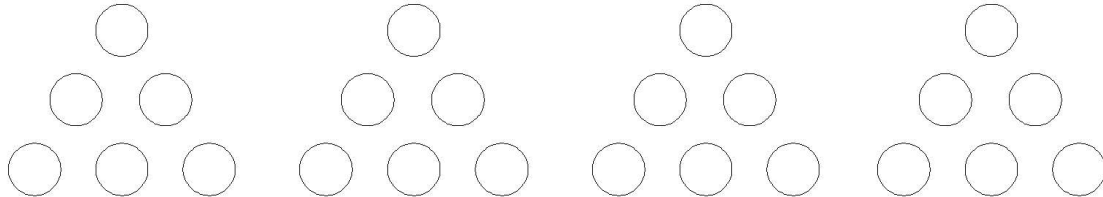


# the 6 circles puzzle

1. Do you think it would be possible to put the numbers 1, 2, 3, 4, 5, 6 in the circles so that the sums of the three numbers on either side of the triangle are the same?



2. Use the triangles below to create as many different side sums as you can.



3. What is the largest side sum less than 10 that you can create? How do you know for sure?
4. What is the smallest side sum greater than 10 that you can create? How do you know for sure?
5. Use the other side of this page to explore different sets of numbers that can be used to solve this puzzle. After you have found a few sets, try and find a really unusual set of numbers that works.