

Maxi pyramid

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My solution:

				226				
			106		120			
		34		72		48		
	4		30		42		6	
1		5		6		7		1

To achieve the highest number on top of the pyramid, according to the given instructions, I had to do the following:

After some time with testing, I decided that the best approach would be to place a high even number (6) in the middle. And then I put a high odd number (5 and 7) as possible on each side, so that I could multiply them with the one on the middle. And then I put 1 on each side, so that it sums up to 20. If I had used a bigger number on each side, the numbers in the middle would have been lower. So the most important thing to solve this, is to put the biggest numbers in the middle.

The advantage by putting the biggest numbers (5, 6, 7) in the middle, is that we also get big numbers (30, 42) in the middle on line 2.

If we placed the numbers like this:

				76				
			38		38			
		26		12		26		
	20		6		6		20	
5		4		2		4		5

We can see that the biggest numbers on line 2 is placed on each side, and not in the middle. This is a disadvantage, because the middle number on line 3 is made up from adding two small numbers.