

15 Cards

For this process we have been working systematically. We started by drawing out 15 cards and writing 1 to 15 on each of them. Using the information that we had we started by trying to work out what the first one could be. We started with the number 1 and we continued through out the 7 cards so it looked like this:

1	14	6	X
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Then we realised that the 4th card would have to be 17 but our highest card was only 15 so we knew we couldn't use 1 as our beginning number.

Then we tried using two as our beginning number and we continued through the 7 cards so it looked like this

2	13	7	X
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We realised that the 4th number would have to be 16 and we don't have a 16 card. We continued changing the first number by adding 1 each time until we got to 6. We found out that 6 would work. It looked like this.

6	9	11	12	4	14	7
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This was our first 7 cards that worked but we kept using the same method from 7 on and out of the cards that were left only 8 worked and it looked like this.

8	7	13	10	6	12	9
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These two options are the only ones that work. We went through all the numbers again and found that they were definitely the only possibilities that work. That is how we solved 15 cards.