Name: ....   Class: ....

Complete an increasing number sequence

Complete the following sequence.

a.   3, 6, 12, 21, 33, 48, _____, _____

b.   1, 12, 25, _____, 57, 76, _____, _____

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Name: .... Class: ....

Complete an increasing number sequence

Complete the following sequence.

a. 3, 6, 12, 21, 33, 48, _____, _____
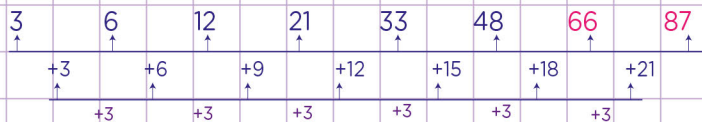
Let's first find the pattern.

Going from 3 to 6, we see that 3 was added

Going from 6 to 12, we see that 6 was added and so on

So, looking at the patterns of numbers that we added to the sequence

each time, we're adding by plus 3

3	6	12	21	33	48	___	___
	+3	+6	+9	+12	+15	+	+
		+3	+3	+3	+3	+	+

Now, lets complete the sequence.

3	6	12	21	33	48	66	87
	+3	+6	+9	+12	+15	+18	+21
		+3	+3	+3	+3	+3	+3

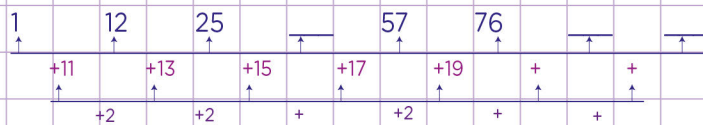So, the complete sequence is 3, 6, 12, 21, 33, 48, 66, 87

b. 1, 12, 25, _____, 57, 76, _____, _____

Let's first find the pattern.

Going from 1 to 12, we see that 11 was added

Going from 12 to 25, we see that 13 was added and so on

So, looking at the patterns of numbers that we added to the sequence

each time, we're adding by plus 2

1	12	25	___	57	76	___	___
	+11	+13	+15	+17	+19	+	+
		+2	+2	+	+2	+	+

Now, lets complete the sequence.

1	12	25	40	57	76	97	120
	+11	+13	+15	+17	+19	+21	+23
		+2	+2	+2	+2	+2	+2

So, the complete sequence is 1, 12, 25, 40, 57, 76, 97, 120