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

Complete an increasing number pattern

Complete the following increasing number patterns.

a.   4, 6, 10, 16, _____, _____, _____

b.   1, 4, 10, 19, _____, _____, _____, _____

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Complete an increasing number pattern
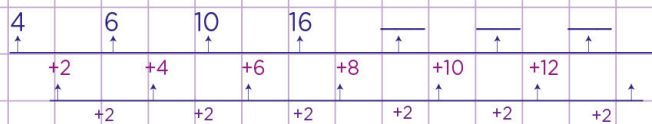
Complete the following increasing number patterns.

a. 4, 6, 10, 16, _____, _____, _____

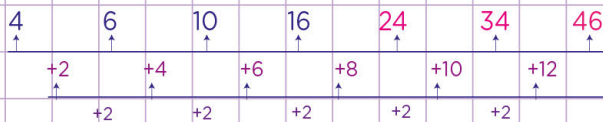Let's first of all find the rule to the pattern.

Going from 4 to 6, we see that 2 was added.

Going from 6 to 10, we see that 4 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.

4 6 10 16 ___ ___ ___
  +2 +4 +6 +8 +10 +12
    +2 +2 +2 +2 +2 +2

Now, lets complete the sequence.

4 6 10 16 **24** **34** **46**
  +2 +4 +6 +8 +10 +12
    +2 +2 +2 +2 +2

> So, the complete sequence is 4, 6, 10, 16, 24, 34, 46.

b. 1, 4, 10, 19, _____, _____, _____, _____

Let's first of all find the pattern.

Going from 1 to 4, we see that 3 was added.

Going from 4 to 10, 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.

1 4 10 19 ___ ___ ___ ___
  +3 +6 +9 +12 +15 +18 +21
    +3 +3 +3 +3 +3 +3

Now, lets complete the sequence.

1 4 10 19 **31** **46** **64** **85**
  +3 +6 +9 +12 +15 +18 +21
    +3 +3 +3 +3 +3 +3

> So, the complete sequence is 1, 4, 10, 19, 31, 46, 64, 85