

# Growing numbers

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## Annotation

Eve can connect elements of a sequential pattern and recognises their ordinal positions. She can continue a growing number pattern and explain what is happening in the number sequence.

## Problem: Growing numbers

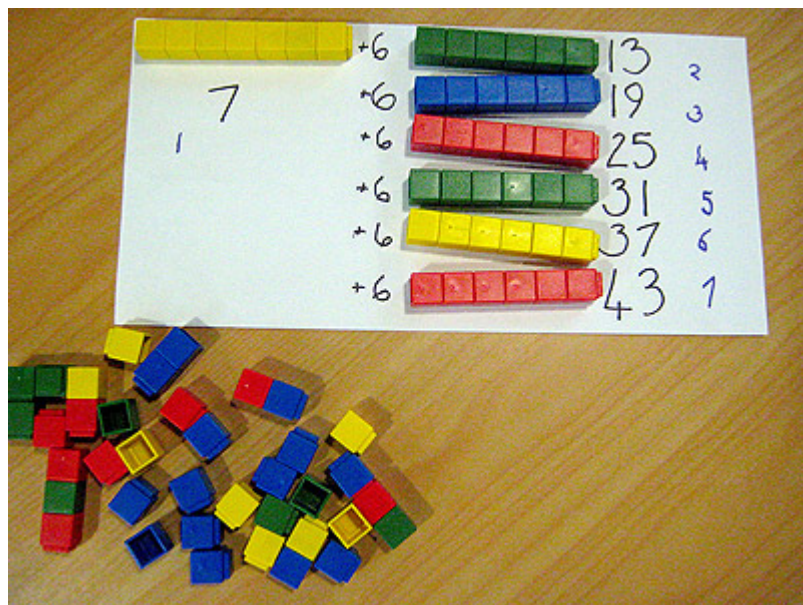
The teacher shows the student the following number sequence and makes patterning equipment available to the student:

**7, 13, 19, 25 ...**

Then the teacher poses this problem:

*What would the seventh number be?*

## Student Response



Eve: 43.

Teacher: *Tell me how you know that.*

Eve: 7 and 6 is 13, 13 and 6 is 19 and 19 and 6 is 25. I did that in my mind but I've made it, like the ones we've been doing, so you can see that the pattern is adding sixes. So, when I add 6 to 25, that gives me the fifth number, which is 31, and if I add 6 again, that gives me the sixth number, which is 37. 37 and 6 is 43. I could keep going to work out the next numbers, but if I did, I might need to make a table and write the numbers in to keep track of them.