**Clumsy Clive On Sequences**

Clive is tackling his sequences homework and knows that he’s made mistakes somewhere.

Can you spot and correct the mistakes Clive has made?

Can you explain what mistakes Clive has made, and maybe give him some tips so that he (hopefully) doesn’t make them again?

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| **Question 1:**Find the next term in the sequence:$$2,5,10,17…$$ |
| *Clive’s answer:* | *Your answer:* |
| The rule is “add $7$” because $10+7=17$. Answer:$$24$$ |  |
| *What mistake has Clive made?* |
| **Question 2:**Find the nth term of the sequence:$$5,9,13,17…$$ |
| *Clive’s answer:* | *Your answer:* |
| In order to get to the next term in the sequence you must add $4$.Answer:$$n+4$$ |  |
| *What mistake has Clive made?* |
| **Question 3:**Find the 20th term of this sequence:$$3,9,15,21…$$ |
| *Clive’s answer:* | *Your answer:* |
| The next term in the sequence is $27$ as the rule is “add $6$”.I need to multiply the 5th term by $4$ to get the 20th term.Answer:$$108$$ |  |
| *What mistake has Clive made?* |
| **Question 4:**Find the nth term of this sequence:$$20,17,14,11…$$ |
| *Clive’s answer:* | *Your answer:* |
| The rule from term-to-term is “subtract $3$” so the sequence is linked to the $-3$ times table.Answer:$$-3n+17$$ |  |
| *What mistake has Clive made?* |
| **Question 5:**Jodie has the sequence $5,8,11,14…$She says that $151$ is in the sequence.Is Jodie correct? Explain you answer. |
| *Clive’s answer:* | *Your answer:* |
| If you keep adding $3$ you will eventually get to $151$.Answer:Jodie is correct. |  |
| *What mistake has Clive made?* |