

Warm Up

SHOW work on how to get the variable expression for the following charts

(Make sure to check to show how to get the constant)

a)

Term Number, n	1	2	3	4	5
Term	10	18	26	34	42

Handwritten notes for part a:

- Red arrows above the term numbers show a constant difference of 8 between consecutive terms.
- Blue arrows below the term numbers show the same difference of 8.
- A purple circle highlights the first term (10).
- Equation: $8n + 2$ (boxed)
- Check: $n = 1$, $8n = 8(1) = 8$, $8 + 2 = 10$ (labeled "out = 10" and "add 2").

b) Using your expression you found in part "a" calculate the output TERM for $n = 20$. (Must show all work to receive full value)

$$8n + 2$$

$$8(20) + 2$$

$$160 + 2 \Rightarrow 162$$

(Note: The final answer 162 is boxed in blue in the original image.)

SHOW work on how to get the variable expression for the following charts

(Make sure to check to show how to get the constant)

2)

Term Number, n	6	7	8	9	10
Term	31	37	43	49	55

Handwritten notes for part 2:

- Green arrows above the term numbers show a constant difference of 6 between consecutive terms.
- Red arrows below the term numbers show the same difference of 6.
- A blue circle highlights the first term (31).
- Equation: $6n - 5$ (in a cloud)
- Check: $n = 6$, $6n = 6(6) = 36$, $36 - 5 = 31$ (labeled "out = 31" and "minus 5").

Attachments

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