"The archaeologist Giancarlo"
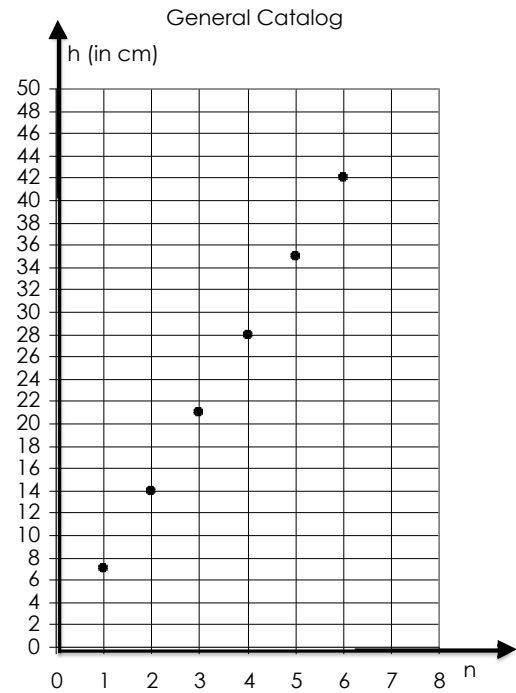
While studying some materials he found in one international library, Giancarlo discovers that, some years before him, a group of English archaeologists analysed the same incisions. In their paper, published on a prestigious journal, they published this graph.

Giancarlo observes it accurately and, even if he does not know English very well, he concludes that he has to go back in the desert to look for other incisions (hoping they did not disappeared).

He has already understood what are their heights and the numbers of tips on their heads.

General Catalog

h (in cm)

(4) Why did Giancarlo draw these conclusions? How are the "missing" incisions?
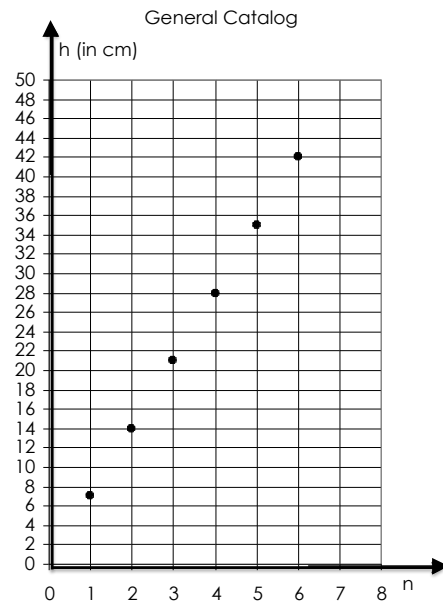
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(4) Why did Giancarlo draw these conclusions? How are the "missing" incisions?

Let's focus on the horizontal axis. What kind of information does it provide? And the vertical one? What do the different points within the graph represent?

On the horizontal axis we read …
On the vertical axis we read …
The different points represent …
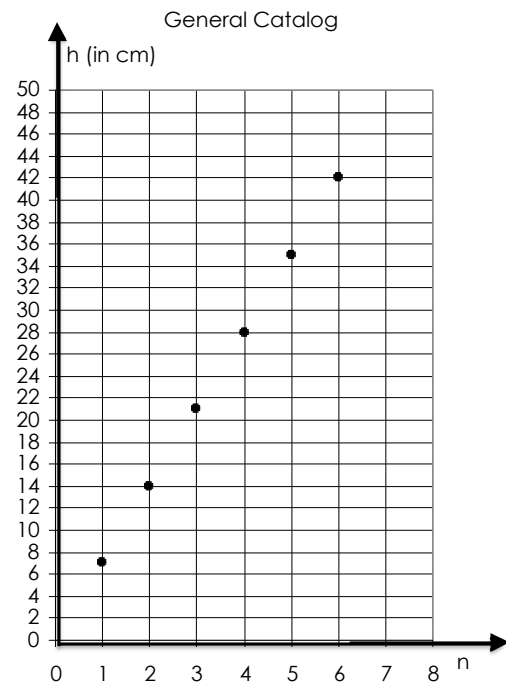
Now, can you say how are the "missing" incisions?

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h (in cm)

(5) Supposing that, in addition to those discovered by the English archaeologists, other incisions exist, constructed referring to the same rule. How could they be?
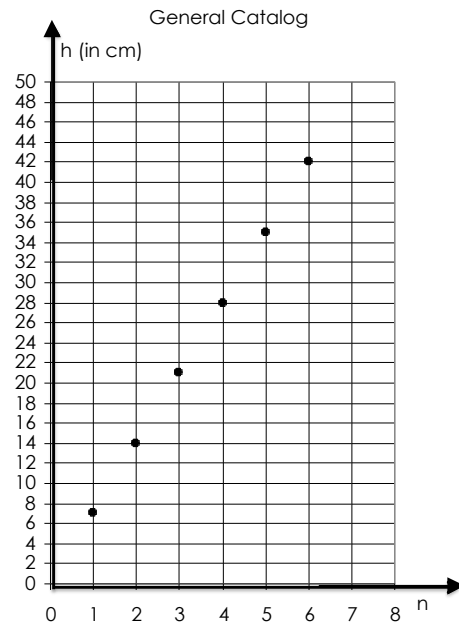
"The archaeologist Giancarlo"

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General Catalog

h (in cm)

50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0

0 1 2 3 4 5 6 7 8 n

(5) Supposing that, in addition to those discovered by the English archaeologists, other incisions exist, constructed referring to the same rule. How could they be?

There could be another incision whose height is 45cm.

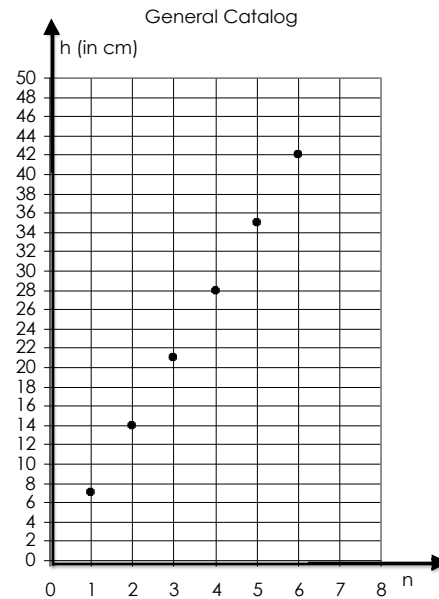A student from another class wrote this answer. Do you agree? Why?

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He has already understood what are their heights and the numbers of tips on their heads.

General Catalog

h (in cm)

50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0

0 1 2 3 4 5 6 7 8 n

(5) Supposing that, in addition to those discovered by the English archaeologists, other incisions exist, constructed referring to the same rule. How could they be?

There could be another incision with 7 tips.

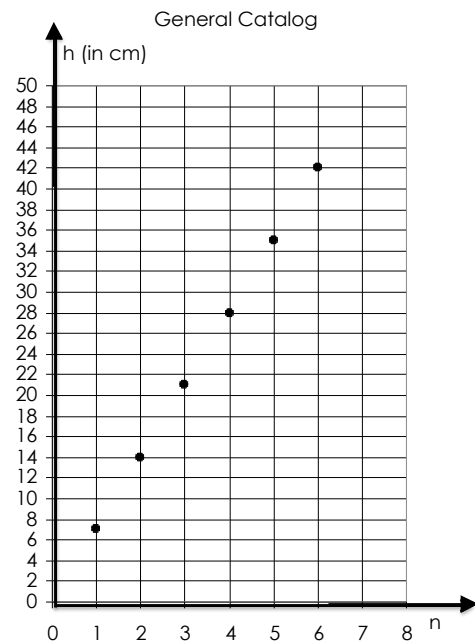What should be the height of the incision to which this answer refers? Why?

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h (in cm)

(5) Supposing that, in addition to those discovered by the English archaeologists, other incisions exist, constructed referring to the same rule. How could they be?

Another incision could have 8 tips and be 56cm high.

How could the student who wrote this answer have found an incision with these characteristics?