Fibonacci's Math

Activity 3 - Fibonacci Numbers in Nature



There are many examples of Fibonacci numbers that can be found all around us! From forests to gardens to supermarkets, Fibonacci numbers are a force of nature! Take for example...

The total number of clockwise spirals on a sunflower head is 55. As well, the number of counter clockwise spirals on a sunflower head is 34. Pineapples also have eight seeds arranged in clockwise spiral order, and the number of seeds in a pineapple is 13 in a counter clockwise spiral.

If you still doubt that nature knows its mathematics, then count the number of branches on the tree shown in the diagram on the following page:

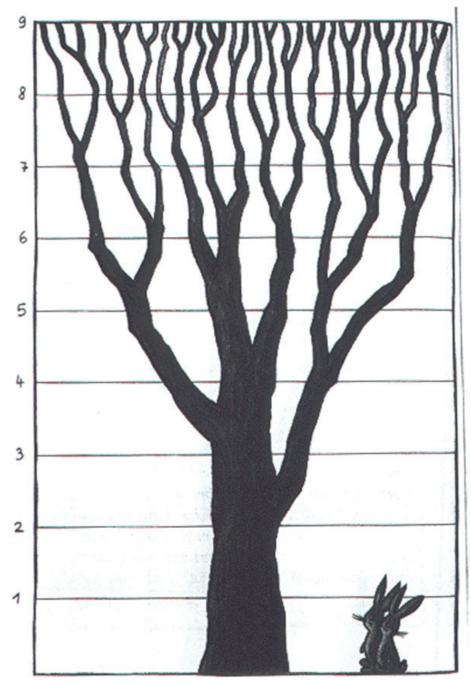
- Start counting from the bottom at the line numbered 1. How many branches are there at level 1?
- How many branches are there at level 2?
- What about level 3?
- How many branches does the tree have at level 4?
- Continue counting branches until level 9. Record your findings and finish filling in the table.
- How many branches is the tree going to have at level 11? How did you find that?

Level #	1	2	3	4	5	6	7	8	9
Number of Branches									

Can you believe THIS is math?

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Activity 3 - Fibonacci Numbers in Nature - continued



Can you believe THIS is math?