

Activity 1 - "Discovery at the sequence"

1. Completion of sequence, es. 0 1 1 2 3 5 13 21 55 89 233.

To carry out the exercise, you need to understand what to put in the blanks space. Complete the sequence and answer the questions.

- What are the missing numbers?
- How is the sequence formed?

2. Calculation challenge up to 17711. Following the sequence of Fibonacci, you have to make some calculations up to 17711. The calculation must be done in your head, but you can use 3 bonus per team, to do the calculation use the box below. You need to get to the shown number.

0; 1; 1; 2; 3; 5;; 13; 21;; 55; 89;; 233;;;;;
.....;;; **17711**;

3 bonus

Activity 2 - “Activity on rabbits”

Now you will have to perform this problem: “A gentleman puts a pair of rabbits in a place completely surrounded by a wall, by nature pairs of rabbits give birth to another pair of rabbits in one month and begin to procreate from the second month of birth. How many pairs of rabbits will be born from these in a year? Carry out the problem completing the table.

The sequence of Fibonacci is defined as the sequence of numbers where the first two terms are 1 and each other term is obtained. Ex. $2+3=5$

Now you have to complete the tabel below .

The second column must be filled with the results of the previous exercise, for the third instead you must do the of the next number to the previous one.

Ex. $3:2=1,5$

time	pairs of rabbit	division between two consecutive terms
start		
1 month		
2 months		
3 months		
4 months		
5 months		
6 months		
7 months		
8 months		
9 months		
10 months		
11 months		
12 months		

What number does the last column of the table tend to? _____

Congratulations you have discovered the golden number