The Fibonacci Sequence - Worksheet

Leonardo Fibonacci discovered the sequence in the 13th century in connection with this problem: A rabbit colony begins with one pair of newborn rabbits (one male, one female). How many rabbits will be in the colony after one year if the rabbits:

* always produce one male and one female offspring,
* can reproduce once every month,
* can start to reproduce once they are one month old, and
* rabbits never die!

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | # baby pairs | # one-month old pairs | # adult pairs | Total # pairs |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |
| 12 |  |  |  |  |