

Leonardo Fibonacci

- **Born: 1170 in Pisa, Italy**
- **Died: 1240**



Fibonacci:

- **The sequence of numbers 0,1,1,2,3,5,8,13,21,... , formed by adding consecutive numbers is named after him – The Fibonacci Sequence**
- **Wrote on mathematical topics such as number theory, practical problems of business mathematics, and surveying, algebra and recreational mathematics.**
- **Was one of the first to pose story problems which became classic mental challenges**

Leonardo da Pisa

- **Born in Pisa, Italy. At the time it was a flourishing commercial city . There he would learn the basics of business calculation**
- **Moved to Algeria when he was 20 to learn Indian numerals and Arabic methods. His father, Guilielmo, held a diplomatic post in the city of Bugia. His father intended for Leonardo to become a merchant but instead he became one of the most famous mathematicians of all time.**

- A widely known traveler, Fibonacci, used his opportunity to learn various mathematical techniques from various regions.



Fibonacci's Bigollo – A Traveller

- Received a “free” North African education.
- Deduced many of his thoughts and ideas from the area's centers of trade.
- Learned Hindu-Arabic mathematics from many of his scholars of the time.
- Extend on the work of Greek mathematicians Euclid and Diophantus.

“Lucky Son”

- **Created the Fibonacci Sequence**
- **Was one of the first people to introduce the Hindu-Arabic Number System – the system we use today.**
 - **It is based on ten digits with the decimal point and a symbol for zero.**
 - **His book, Liber abbaci (The Book of Calculating), persuaded many Europeans to use this new mathematical system.**

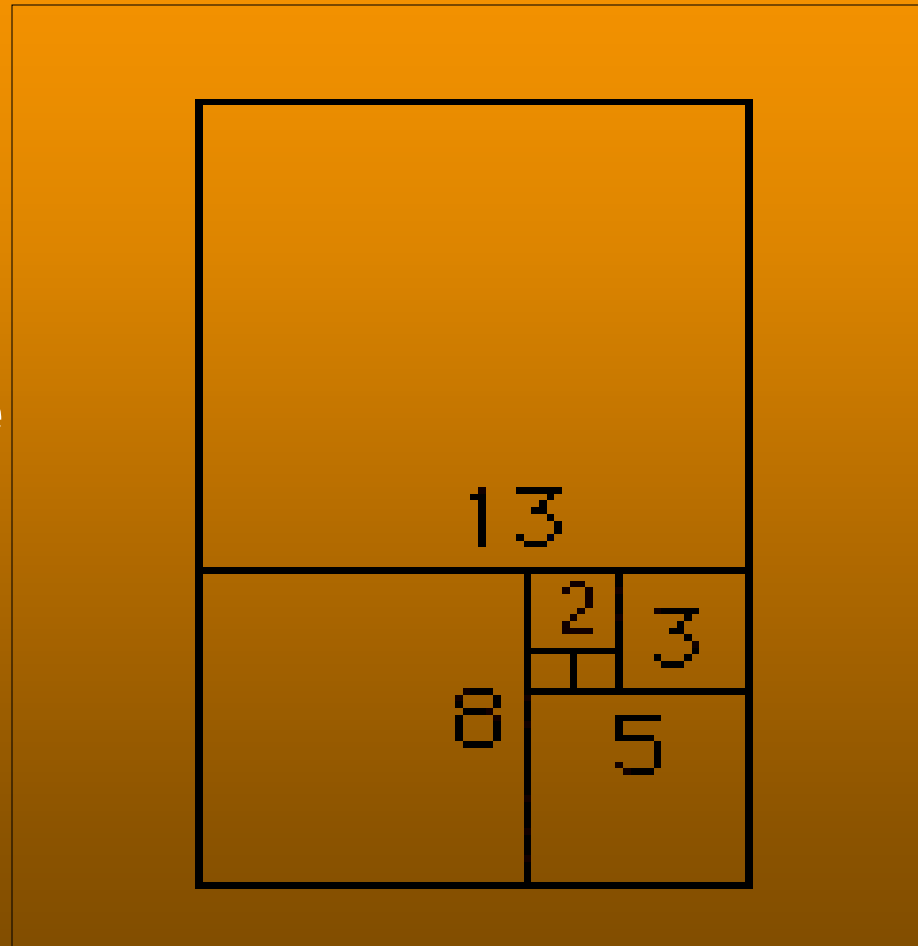
Fibonacci Sequence and Rabbits?



- **Fibonacci's Sequence was discovered after an investigation of the reproduction of rabbits.**
- **He found that rabbits produced pairs of rabbits that followed the Fibonacci Sequence.**

More with the Fibonacci Sequence

- From the Sequence, Fibonacci Rectangles were created.



Even more with the Fibonacci Sequence

- **The Fibonacci Sequence is used in various art forms. Here a picture of a 14th century Greek building is shown.**
- **Watch how art is created using the Fibonacci Rectangles**



Honoring the Mathematician

- **He was awarded a yearly salary by the Republic of Pisa in 1240, for the importance of his work and his public service to the city's administration.**

Bibliography

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