## FIBONACCI SEQUENCE

There are some amazing things about Fibonacci Sequences. In fact, you can find Fibonacci Sequences all over the natural world.

Let's look at just one animal – the bee. We can look at a bee's family tree and see the sequence for ourselves.

Facts: Every hive has a lot of bees. It is made up of:

- One female, who is the queen of the hive
- Lots of other female workers, who do lots of work but don't lay eggs
- A few males, called drones. They are the result of *unfertilized* eggs.

<u>So let's take one male bee</u>.

- He has just one parent, as he was born from an unfertilized egg. He has no father.
- The parent who laid that egg was a female. So she had two parents.
- Therefore, we know that our bee has 2 grandparents (his mother's parents)
- Of the grandparents, the female had two parents, but the male only had one.
- So, our male bee had three great-grandparents.



male bees you always get 1.618... Phi.

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