

The honeybee family tree

We already knew that honeybees were amazing mathematicians because of the hexagonal honeycomb, but who could have guessed their family tree would be a Fibonacci sequence!

Complete your own honeybee family tree below and use it to answer the questions.

- How many grandparents does a male honeybee have?
- How many great-grandparents does a female honeybee have?
- Complete the table below showing the number of bees in each generation

	Child	Parent(s)	Grandparents	Great grandparents	Great Great Grandparents
Female	1				
Male	1				

- What do you notice about the number of male honeybees in each generation?
How does this compare to the number of female honeybees in each generation?
- Could you predict the number of great great great grand parents a Female honeybee has?

Challenge

Is there a link between the two numbers? Does this change over time?

Hint: make a fraction and write as a decimal