

# Fibonacci numbers

PUPIL WORKSHEET



## About Fibonacci

Fibonacci was an Italian mathematician from the Middle Ages who worked on a series of numbers that were first written in 6th century India. The series of numbers became known as Fibonacci numbers.

## Fibonacci numbers

The Fibonacci sequence is a series of numbers that creates a pattern.

**0, 1, 1, 2, 3, 5...**

The next number is found by adding up the two numbers before it.

So, 1 is found by adding the two numbers before it (0+1) and so on!

## Have a go:

0+1 = .....

↓ ↓

1+ .....

↓ ↓

..... + ..... = .....

↓ ↓

..... + ..... = .....

↓ ↓

..... + ..... = .....

↓ ↓

..... + ..... = .....

↓ ↓

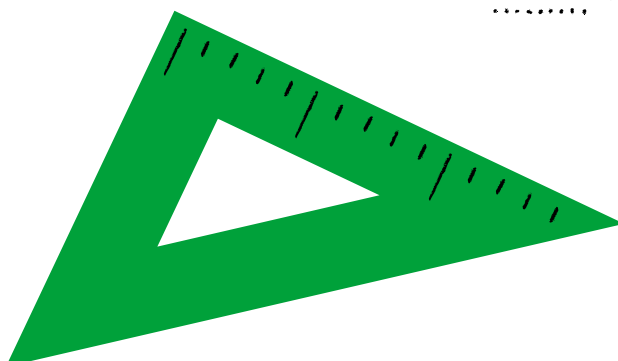
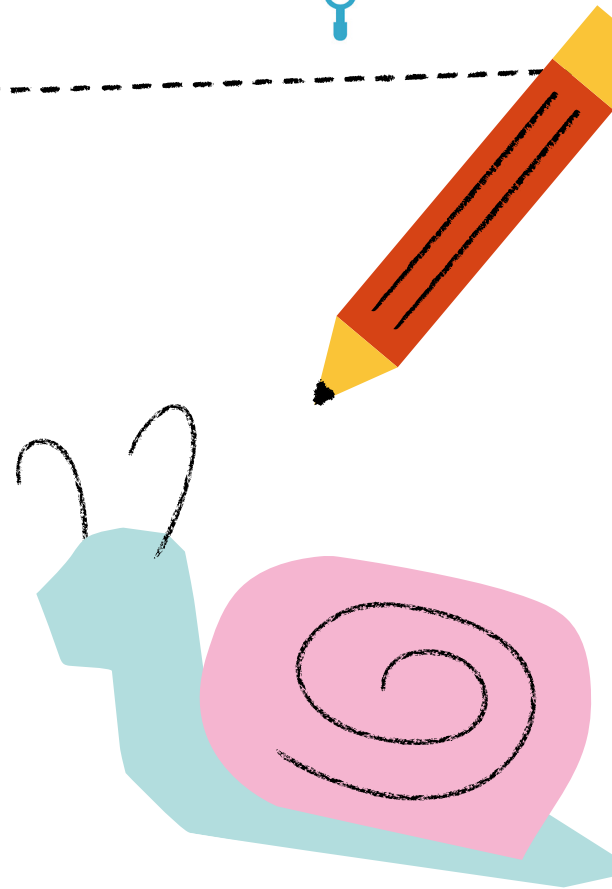
..... + ..... = .....

↓ ↓

..... + ..... = .....

↓ ↓

..... + ..... = .....



This activity was created by Maths on Toast, the family maths charity. To find more activities online go to: [mathsontost.org.uk](https://mathsontost.org.uk)

\*Supported by



\*Number Day is supported by Man AHL and Maths on Toast, led by NSPCC.

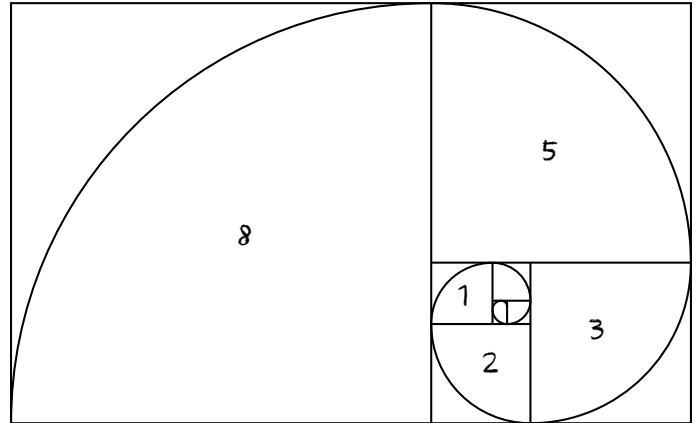
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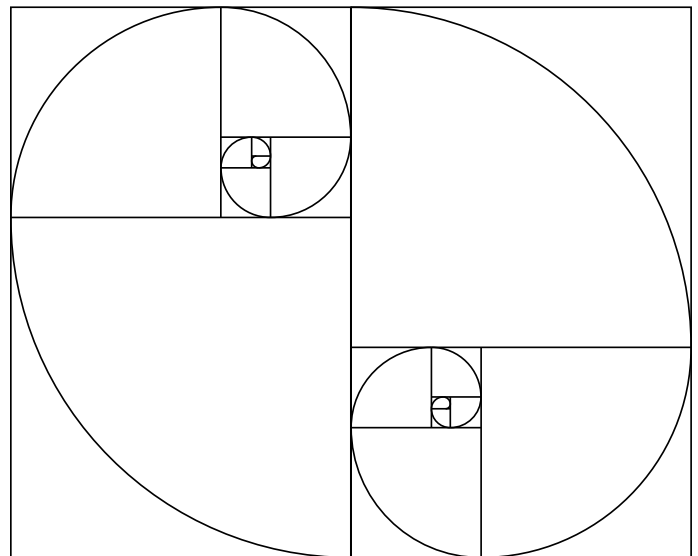
### Fibonacci spirals

When we make squares with those widths, we get a nice spiral.



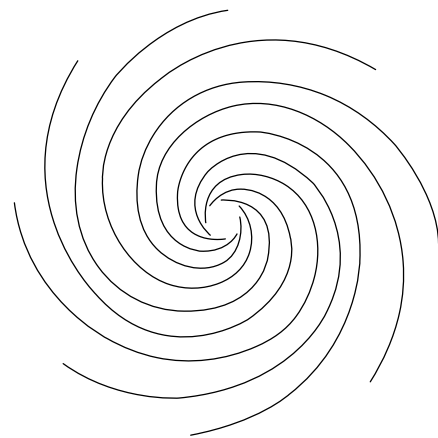
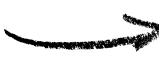
- \* What do you think of the pattern on the right?
- \* Can you see how it is made?
- \* Do you like the proportions of the spiral?

Colour the pattern!



The Fibonacci spiral actually looks a lot like a nautilus shell. In fact, you will find lots of Fibonacci spirals in nature, from flowers to pinecones to pineapples! Look out for them throughout your day.

Using the spiral as a centre point, draw a rose



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