

G5-M6-Lesson 31

Lesson Notes

To get a better understanding of the Fibonacci numbers, watch the short video, "Doodling in Math: Spirals, Fibonacci, and Being a Plant" by Vi Hart (<http://youtu.be/ahXIMUKSXX0>).

1. In your own words, describe what you know about the Fibonacci numbers.

The Fibonacci numbers are really interesting. They're a list of numbers. You can always find the next number in the series by adding together the 2 numbers that come before it.

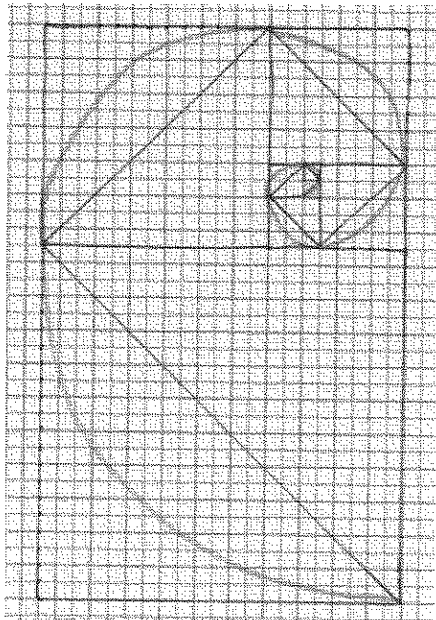
For example, if part of the series is 13 and then 21, then the next number in the list will be 34 because $13 + 21 = 34$.

I can remember the first few Fibonacci numbers:

1, 1, 2, 3, 5, 8, 13, 21, 34.

2. Describe what the drawing you did in class today looked like.

I can visualize what we drew in class. It looked like this:



At first, the drawing just looked like a bunch of square boxes drawn near one another that had a side in common. But then we drew a diagonal line across each square. Then we drew a more curved line inside each square, and it created this really neat spiral pattern, kind of like a seashell.

After we drew it, we wrote down the side length of each square we drew and realized that they were the Fibonacci numbers. In other words, the first 2 squares we drew had a side length of 1, then the next square had a side length of 2, then 3, then 5, and so on.