G5-M6-Lesson 32

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. Complete the Fibonacci sequence in the table below.

> The values in the top row tell the order of the numbers in the sequence. For example, this is the 6th number in the sequence.

1	2	3	4	5	6	7	8	9
1	1	2	3	5	8	13	21	34

> I can find the value of the next number in the sequence by adding together the two previous numbers. $5 + 8 = 13$; therefore, the 7th number in the sequence is 13.

2. If the 12th and 13th numbers in the sequence are 144 and 233, respectively, what is the 11th number in the series?

___ $+ 144 = 233$

$233 - 144 = 89$ ◁── What number plus 144 is equal to 233? I can use subtraction to solve.

The 11th number in the series is 89.