**Do Now**: Below are 7 numbers of a sequence. Look closely for the pattern.

1, 1, 2, 3, 5, 8, 13, \_\_\_\_, \_\_\_, \_\_\_,...

What is the pattern for getting each successive (ie. next) term? And what will the 8th, 9th, and 10th numbers be?

The pattern above is called the \_\_\_\_\_\_. It is named after the Italian mathematician \_\_\_\_\_.

In the left-hand column of the table below, find the first 13 terms of the sequence. Then compute the ration of each current term to the previous term.

	Ratio of current term over the previous term	Decimal value of the ratio (rounded to 4 decimal places)
1		
1	$\frac{\text{current term}}{\text{previous term}} = \frac{1}{1}$	1
2	$\frac{\text{current term}}{\text{previous term}} = \frac{2}{1}$	1
3	current term previous term	