The Fibonacci Sequence
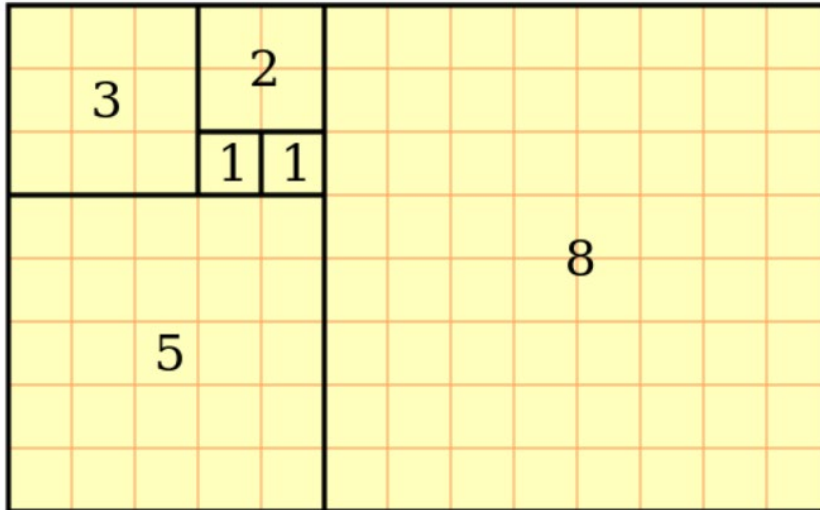
What are the next three numbers in this sequence of numbers?
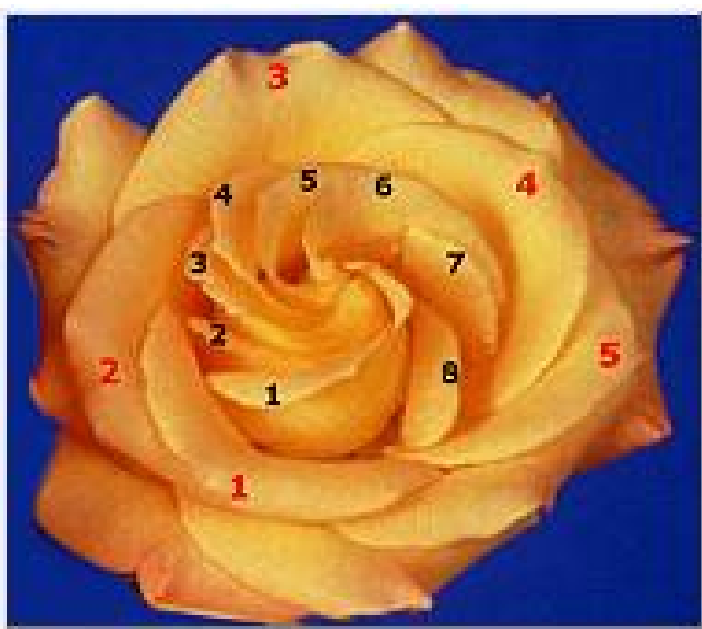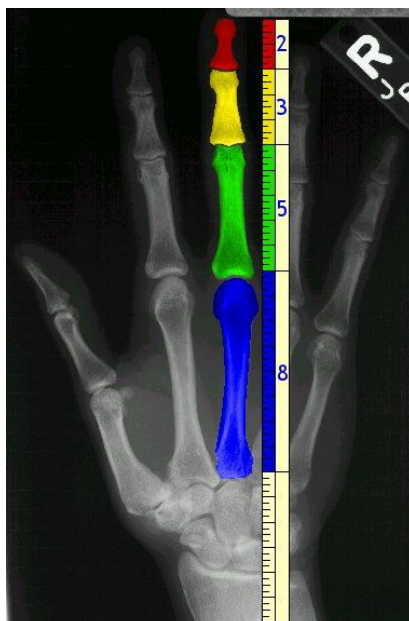
0, 1, 1, 2, 3, 5, 8, 13, …

This sequence of numbers is called the Fibonacci sequence. It can also be seen using graph paper and filling in the squares as follows:

What would the dimensions of the next two squares be?

This sequence can be found in many places in the human body and in nature…

Comparing these consecutive numbers, a common ratio is found. Find the missing numbers for the ratios below to find the Golden Ratio.

$$0, 1, 1, 2, 3, 5, 8, 13, 21, 34$$

1/1 = 1

2/1 = 2

3/2 = 1.5

5/3 =

8/5 =

13/8 =

21/13 =

34/21 =

Is there a number that these ratios are approaching?

Golden Ratio =

Can you find the golden ratio from measurements of your body?

1	2	Ratio (1:2)
Height of your head	Width of your head	
Length of elbow to fingertip	Length of wrist to fingertip	
Length of naval to feet	Length of naval to top of head	