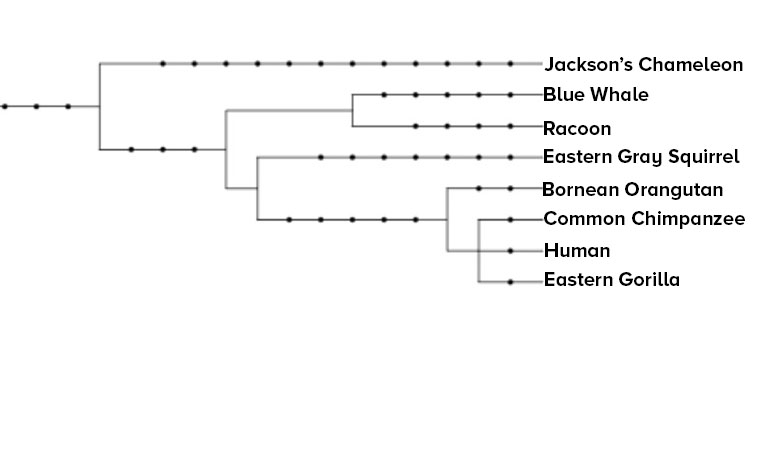
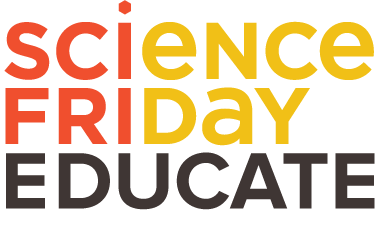
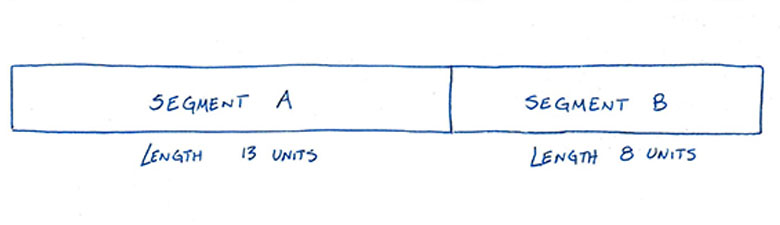
Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Circle One: Pre-test / Post-test

**Fibonacci Sequence—A Handy Mathematical Approach For Looking At Evolution!**

**Directions:** Choose the correct answer out of the options provided and write it in the space provided.

1. \_\_\_\_\_\_\_\_\_ Organisms such as \_\_\_\_\_\_\_\_\_\_\_\_ are most likely to have measurements of their bones that most closely align with the Fibonacci sequence.  
   A) reptiles  
   B) rodents  
   C) primates  
   D) birds
2. \_\_\_\_\_\_\_\_\_ Structures like the wing of a bird, bat, and moth are considered to be \_\_\_\_\_\_\_\_\_\_\_\_\_ because even though they have the same function they evolved independently of each other.  
   A) homologous  
   B) analogous  
   C) repetitious  
   D) numerous  
     
     
     
     
     
   
3. \_\_\_\_\_\_\_\_\_ In the phylogenetic tree above, the Eastern Gorilla has the least in common genetically with the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   A) Jackson’s Chameleon  
   B) Human  
   C) Eastern Gray Squirrel  
   D) Racoon
4. \_\_\_\_\_\_\_\_\_ Which of the following calculations would allow you to determine whether the ratio of the lengths of segment A and segment B matches the golden ratio?  
   A) Subtract A and B and then divide their difference by A  
   B) Add A and B and then divide their sum by A  
   C) Subtract A and B and then divide their difference by B  
   D) Add A and B and then divide their sum by B
5. \_\_\_\_\_\_\_\_\_ 3, 5, 8, 13, 21, 34, X. The next number, X, in this Fibonacci sequence would be   
   A) 13  
   B) 46  
   C) 55  
   D) 66

**Answer Key:**

1) C

2) B

3) A

4) B

5) C