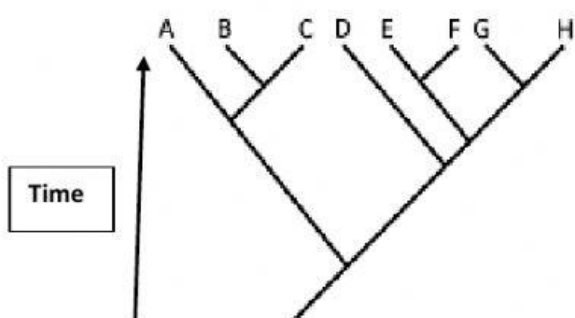


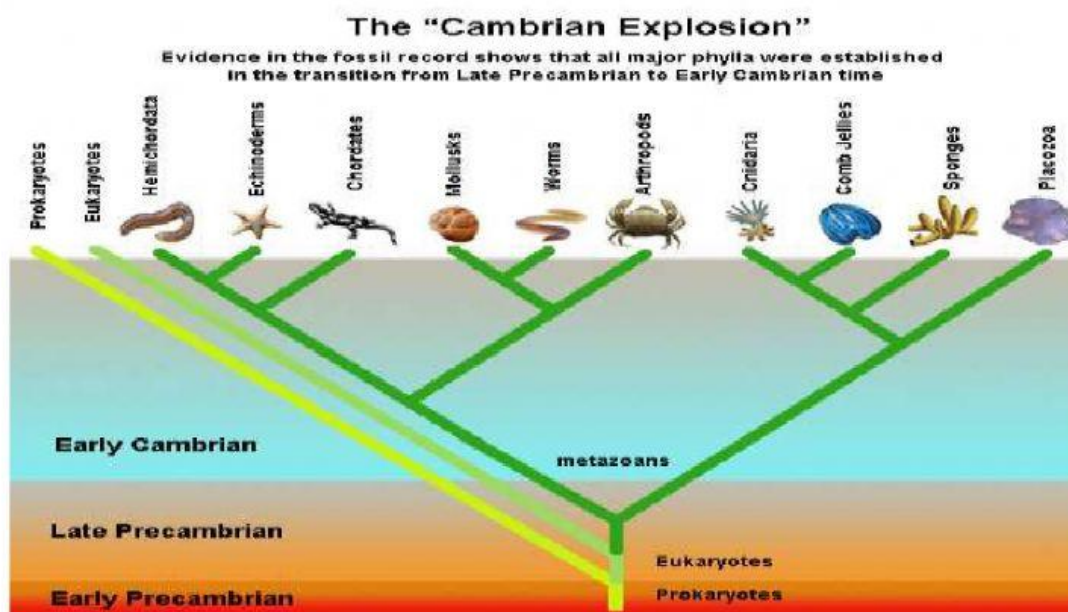


Cladograms & Phylogenetic Trees Review

Phylogenetic Trees: Analyze the following diagrams and answer the questions that follow:



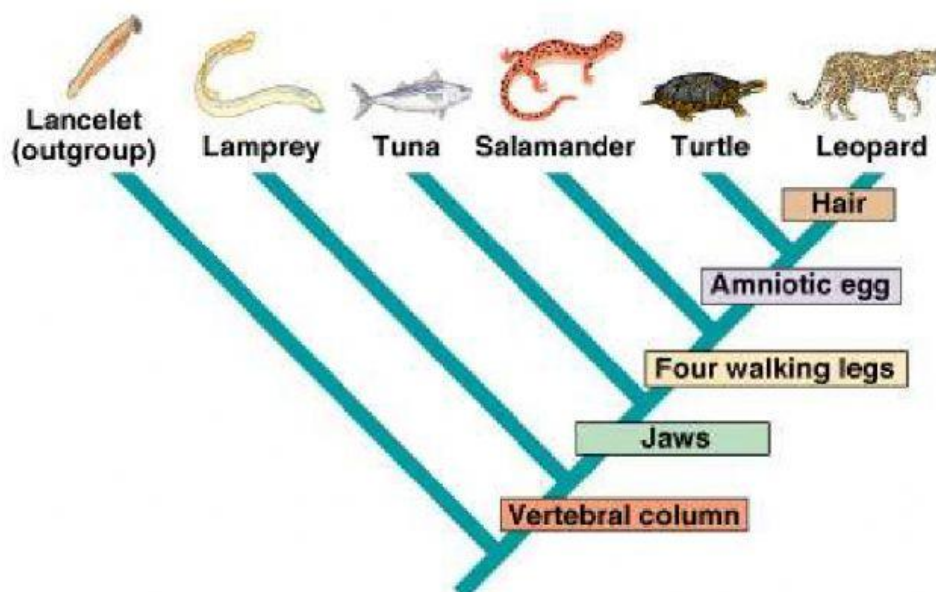
1. Which species evolved first according to the diagram?
2. How can you tell the species are related?
3. Which species are more closely related, Species D and E or Species E and F?
4. Which species are the least related?



5. What type of organism do all of the other organisms originate from?
6. What are sponges closest related to?
7. Which are more closely related, Mollusks and Arthropods or Cnidaria and Placozoa?
8. Which organism are Chordates least related to on their branch?

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Cladograms: Analyze the following diagrams and answer the questions that follow:



9. What trait separates Tuna from Salamander on this cladogram?

10. What traits separate a Lamprey from a Salamander?

11. Which organism is most related to the Turtle?

12. What four traits do the Turtle and Leopard share?

13. Which organism will have DNA most similar to the Leopard?

14. Which organisms DNA will differ the most from the Lancelot?

15. Are all of these organisms related? How can you tell?

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