

Name _____ Block _____ Date _____

Pearson Cladograms Website - *Look at the text in the upper right to answer the following questions.*

1. Define **phylogeny**. _____
2. How do **cladograms** group organisms? _____
3. What is a **derived character**? _____

4. Based on the cladogram shown, which two organisms are most closely related?

5. What **two** derived characteristics do crabs and barnacles share that limpets do not?

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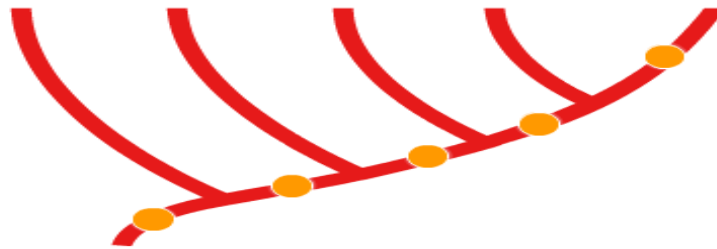
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6. Complete the cladogram using “derived anatomical characteristics” on the website, and then fill in your answer below using the word bank.

Amniotic egg	Backbone	Hair	Iguana	Kangaroo	Live young
Placenta	Platypus	Squirrel	Toad		



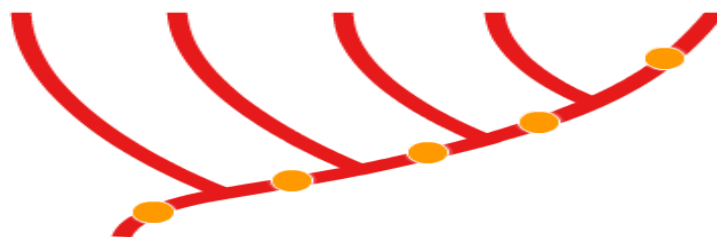
7. Complete the following cladogram using “derived molecular characteristics” on the website. On the cladogram below, show where in the tree the various mutation colors occurred.

Blue	Green	Pink	Purple	Orange	Yellow
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