**Invert Zoo Group Assignment: Phylogenetic Tree of the Basal Phyla**

*Both have amniotic eggs*

*Birds*

*Reptiles*

Names of group members:

|  |  |  |  |
| --- | --- | --- | --- |
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|  |  |  |  |

How are ctenophores similar to cnidarians? How are they different?

How are placozoans similar to poriferans? How are they different?

Using this information and other information from your notes, **construct a single phylogenetic tree** that shows a possible evolutionary relationship cnidarians, placozoans, protozoans, ctenophores, poriferans, and “the bilateral phyla”. Based on **morphological** evidence, indicate at each node of branching on your tree the evidence for why you represented the relationship of these phyla as you did (see example in upper right- hand corner of page). Resolve any trichotomies.