

Biological inquiry tree thinking case answers

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Which of the four trees above depicts a different pattern of relationships than the others? 8) Which of the four trees above depicts a different pattern of relationships than the others? c d b 'c' is the correct answer. In all the other trees C is more closely related to E and D than to B. In 'c,' C is more closely related to B than to E or D.

What numbered character was possessed by the MRCA of the taxa C, E, and G? 7 C, E, and G all evolved from an ancestor that had character 7, and this ancestor is the MRCA of these three taxa (i.e., it is at the highest branching point common to these three taxa).

Which of the trees below is false given the phylogeny above? 6) Which of the trees below is false given the larger phylogeny above? 'c' is the correct answer. This depends on only the knowledge that a salmon and a trout are very closely related. Therefore they must share a more recent common ancestor with each other than with any other included species.

Is a seal more closely related to a horse than a whale? Is the seal more closely related to the horse, the whale, or equally related to both? The scientific interpretation is that the seal is equally related to both. Representations are a critical way to express scientific knowledge.

What do the four trees represent? Esperanza looks at different trees throughout the book in chapters “Four Skinny Trees” and “Meme Ortiz”, and claims them being a reflection of her. Trees symbolize a feeling of not belonging, finding strength, persevering, and doing something for the foundation of the future.

What are the 4 groups of trees? What are the main types of trees? We divide tree into 4 main categories: deciduous trees, evergreens, fruit trees and coniferous trees, each of which has specific characteristics that should be known.

What is the character of a taxa? Taxonomic character: - is any attribute of form, structure, physiology or behavior which is considered separately from the whole organism to particular purpose such as comparison, identification or interpretation.

What is the MRCA common ancestor? In genetics and genealogy, the term Most Recent Common Ancestor (MRCA) refers to the most recent individual from whom two or more people are descended. This individual may be a single person or a group of people who share a common ancestor within a particular genealogical timeframe.

What is an example of a derived character? Derived Characters Four limbs, for example, is a derived character for the clade tetrapoda. Hair is a derived character for the clade Mammalia, but four limbs is not derived for mammals. If it were, only mammals would have four limbs!

Who is more closely related to cousin #1, you or your sister? Phylogeny:- You are more closely related to your sister than to your cousin, because your most recent common ancestors with your sister (your mom and dad) lived more recently than your most recent common ancestors with your cousin (your grandparents).

What is the oldest part of a phylogenetic tree? The root is the most recent common ancestor of all of the taxa in the tree. It is therefore the oldest part of the tree and tells us the direction of evolution, with the flow of genetic information moving from the root, towards the tips with each successive generation.

What is the most accurate phylogenetic tree? For the most accurate tree, use of either RAxML or IQ-TREE with an alignment of variable sites produced by mapping to a reference genome is best.

What if you were to add a trout to the phylogeny? Answer and Explanation: If a student were to add a trout to this phylogeny, its lineage would attach at point c. Trout are fish, and therefore share a most recent evolutionary common ancestor with other fish, like salmon.

What animal has the closest DNA to whales? Hippos and whales may look different in many ways, but they are actually each others' closest living relatives—sharing a common ancestor that lived about 55 million years ago.

What is the sister group to mammals? Genome evolution in Reptilia, the sister group of mammals.

What tree represents life and death? In Ancient Egypt, the Tree of Life represented the order and method of the creation process. Ancient Egyptians regarded a sacred sycamore tree as an archetypal connection and coexistence between life and death. In Egyptian mythology, an acacia tree produced the earth and the sky and enclosed both vitality and death.

What trees are confused with the tree of heaven? Tree-of-Heaven has what is referred to as a pinnately compound leaf, or a leaf with a central stem called a rachis, lined with as many as 41 leaflets. Common native trees that have a similar pinnately compound leaf structure include sumac, walnut, hickory, ash, locust, and boxelder.

What tree symbolizes healing? The ash tree (scientific name: *Fraxinus*) is mainly associated with healing and enchantment, and in particular to the Welsh magician/god Gwyddion, who had an ash wand.

What is a tight cluster of trees called? Definitions of copse. noun. a dense growth of trees, shrubs, or bushes. synonyms: brush, brushwood, coppice, thicket.

What is a row of trees called? colonnade: a row of trees or other tall objects. Or perhaps you encountered one of the following and confused it for "a single row of trees on a hilltop". stand: a group or growth of tall plants or trees: a stand of pine.

What do you call a bunch of trees? The term 'forest' is the most appropriate and popular collective noun used for trees. The Grove of trees and the Orchard of trees can be used instead of the forests. Other terms like woodland, stand, thicket, and woodlot are also used for the clump of trees.

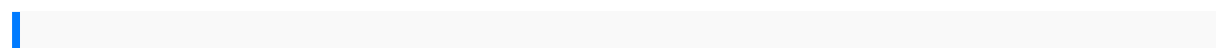
Which tree indicates an evolutionary relationship that is different from the others? A phylogenetic tree is a diagram that represents evolutionary relationships

among organisms.

What are the different types of tree branching patterns? A real plant usually has three types of branching structures*alternate, opposite and whorled. Junctions with three branches originate from the alternate pattern. Junctions with four branches originate from the opposite pattern.

What types of trees have the most connections to others? Mother trees are the biggest, oldest trees in the forest with the most fungal connections. They're not necessarily female, but Simard sees them in a nurturing, supportive, maternal role. With their deep roots, they draw up water and make it available to shallow-rooted seedlings.

What kind of tree is used to depict how different species are related to each other? A phylogenetic tree, also known as a phylogeny, is a diagram that depicts the lines of evolutionary descent of different species, organisms, or genes from a common ancestor.



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