

Biological inquiry tree thinking case answer

yoomai

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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.

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.

How does an evolutionary tree help describe evolution? The root of the tree represents the ancestral lineage, and the tips of the branches represent the descendants of that ancestor. As you move from the root to the tips, you are moving forward in time. When a lineage splits (speciation), it is represented as branching on a phylogeny.

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.

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 tree that shows evolutionary relationships among? 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.

What is most closely related on a phylogenetic tree? The branching pattern of a tree indicates relatedness; taxa that share more recent common ancestors are more closely related. It's tempting to think that terminal taxa that are located more closely to one another on a phylogeny are more closely related evolutionarily, but this is not the way that it works.

Are cows descended from whales? Their ancestor is most likely an ancient artiodactyl, i.e. a four-legged, even-toed hoofed (ungulate) land mammal, adapted for running. Cetaceans thus have a common ancestor with modern-day artiodactyls such as the cow, the pig, the camel, the giraffe and the hippopotamus.

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.

Are bears and walruses related? All family members, generically referred to as "bears," are in the subfamily Caniformes and are most closely related to the Otariidae (eared seals), Odobenidae (walruses), and Phocidae (true seals), having diverged from a most recent common ancestor approximately 40 (37–43) million years ago (MYA) in Eurasia.

What is the most recent ancestor on a phylogenetic tree? The trunk at the base of the tree is called the root, and the root node represents the most recent common ancestor of all of the taxa represented on the tree.

What is it called when two species share a common ancestor? Divergent evolution occurs when two species share a common ancestor and evolve one or more characteristics that make them different to each other. This might happen because they find themselves in different environments, facing different conditions that influence their evolution.

How can you tell when a species went extinct on the phylogenetic tree? Sometimes, extinct taxa may be included as terminals on a phylogenetic tree. If such a tree has branches scaled to time, extinct taxa will not be aligned at the present time. Rather, the branch tips for extinct taxa will end at the levels in time at which they went extinct, as shown below.

What tree is the tree of life? The tree of life appears in Norse religion as Yggdrasil, the world tree, a massive tree (sometimes considered a yew or ash tree) with extensive lore surrounding it.

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 is the tree of life God? It portrays how God, the Creator, demonstrates his creative energy throughout the universe, via angels and then to humans. Each of the tree's branches (sefirot) represents a different category of creative force that is overseen by a different Archangel.

What is the taxonomy of a tree? Taxonomy of Trees The various types of trees may be understood in terms of the related groupings (taxa) to which they belong and the similar characteristics that are shared within their group. All living things are classified into hierarchical categories based on shared characteristics.

Do trees grow better in groups? Trees can grow well together if you give them more than half a chance. Kim Coder is a forester with the University of Georgia Warnell School of Forestry and Natural Resources.

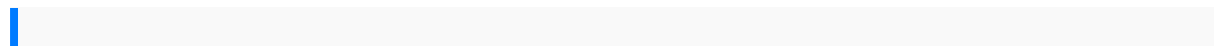
What is a large group of trees called? The term 'forest' is the most appropriate and popular collective noun used for trees. The Grove of trees and the Orchard of trees can be used instead of the forests. Other terms like woodland, stand, thicket, and woodlot are also used for the clump of trees.

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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