

IB Computer Science  
Binary Trees

## Directions

For each term, write the number of the definition that **best** matches the term.

Note: Many terms and definitions are similar, choose the definition that best describes the term.

Question Number	Term	Matching Definition Number	Defintion Number	Definition
1	Parent	3	1	The top node in a tree.
2	Preorder	5	2	A type of depth-first traversal where a node is visited after its children
3	depth-first traversal	12	3	A node within a tree that has nodes that branch off from it (children)
4	Root	1	4	Traversing trees in level-order, where every node on a level is visited before going to a lower level.
5	Child	9	5	A type of depth-first traversal where a node is visited before its children
6	Leaf	7	6	A data structure in which the number of elements can change during program execution
7	Traversal	8	7	A node with no children within a tree.
8	inorder	10	8	Going through each of the nodes of a tree
9	Dynamic Data-Structure	6	9	A node within a tree that branches off from another (parent)
10	Subtree	11	10	A type of depth-first traversal where a left subtree is processed, then the parent, and then the left subtree.
11	Postorder	2	11	The grouping of a parent and a child in a tree.
12	breadth-first traversal	4	12	Includes the three traversal methods in-order, preorder, and postorder