As always, sit with a partner and work through these together.

Certain problems fit certain types of traversals especially well. With a partner/group, determine the best traversal to use for each of the following problems. You can choose from breadth-first, pre-order, post-order, in-order and Euler tour. There are certainly multiple valid ways to solve each problem, so make sure you discuss why you think that your answer is the best.

**Activity #1.** Decorate each node with the number of its descendants

**Activity #2.** Given the root of the tree, determine if it is perfect.