

The Deca Tree

Age 7 to 11
Challenge Level

In the forest there is a Deca Tree.

A Deca Tree has 10 trunks,



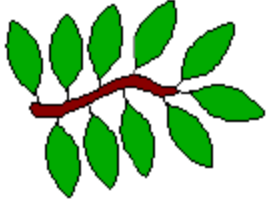
and on each trunk there are 10 branches,



and on each branch there are 10 twigs,



and on each twig there are 10 leaves:



One day a woodcutter came along and cut down one trunk from the tree.

Then he cut off one branch from another trunk of the tree.

Then he cut off one twig from another branch.

Finally he pulled one leaf from another twig.

If there's 10 trunks, all we have to do is Multiply the the Branches 10 X 10 and It would be 100, then for the Twigs it would be 100 X 10 which Equals 1'000 then 1'000 X 10 would be 10'000, If a trunk was cut off is then 10 Branches would be Gone, then 100 twigs come off then that removes 1000 leaves. Then a branch would equal 10 twigs and that would equal 100 leaves. Then a twig would equal 10 leaves, then the one leaf that would equal 8889

10000-1000=9000-100=8900-10=8890-1=8889