Answers:

The Deca Tree



The deca tree has 10 trunks.

On each trunk there are 10 branches.

On each branch there are 10 twigs.

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.

He then cut off one twig from another branch.

Finally he pulled one leaf from another twig.

How many leaves were left on the tree?

There are 10 leaves per twig
There are 10 twigs per branch
10 leaves x 10 twigs = 100 leaves per branch
There are 10 branches per trunk
100 leaves x 10 branches = 1000 leaves per trunk
There are 10 trunks per tree
1000 leaves x 10 trunks = 10 000 leaves on the
tree

Cut off one trunk: $10\ 000 - 1000 = 9000$ leaves left Cut off one branch: 9000 - 100 = 8900 leaves left Cut off one twig: 8900 - 10 = 8890 leaves left Pull off one leaf: 8890 - 1 = 8889 leaves left

There are 8889 leaves left on the tree.