

# The Deca Tree

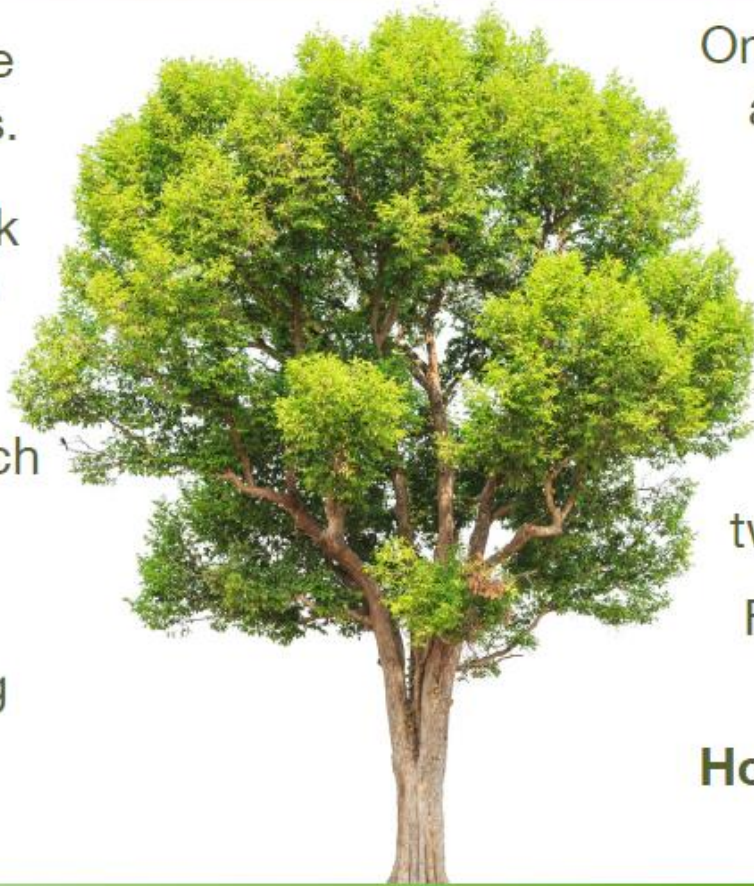


The deca tree  
has 10 trunks.

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.

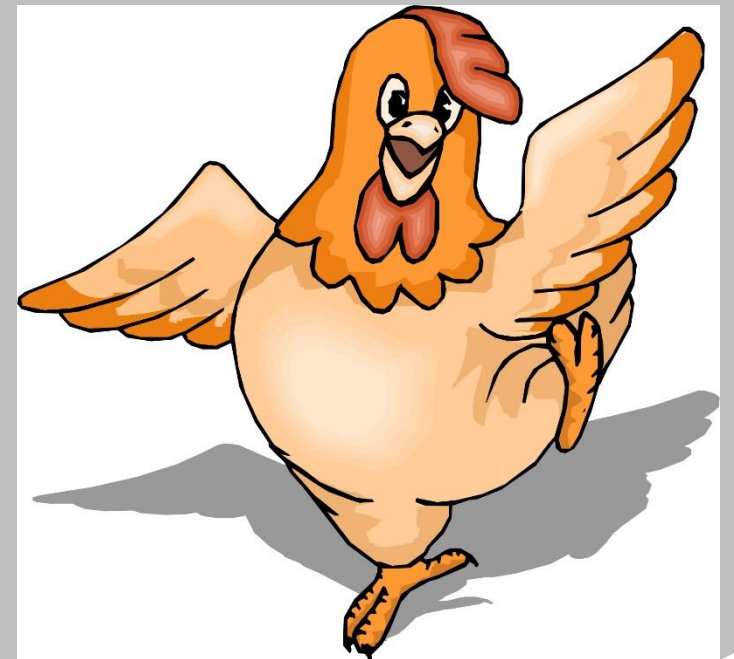
He then cut off one  
twig from another branch.

Finally he pulled one leaf  
from another twig.

**How many leaves were left  
on the tree?**

Silver - 3.2.17 – 17.2.17

A farmer looks across a field of chickens and sheep. He counts 26 heads and 74 legs. How many chickens and sheep does he have?



# Gold - 3.2.17 – 17.2.17

The number 726 can be formed by adding a 3-digit number with its reversal:

462 + 264 and there are two other ways to do this

Find three ways to do this for

a) 707 (fairly easy)

b) 766.

c) Find the ten numbers between 700 and 800 that can be formed from a number plus its reversal.

