

Tree Height Measuring Device

Materials needed:

Print this page on heavy paper

8-10 inch piece of string

small weight, bead or button

fat soda straw

tape or glue

pencil or awl to poke two holes in paper

To make this tree height measuring device:

Print this page on heavy paper, fold along the diagonal line from corner to corner. Trim edges of the triangle on the lines.

Punch out the holes at the top of the plumb line and tie a string with a weight on the end at the holes. When the string hangs straight down the plumb line, your triangle is level.

Glue or tape a fat soda straw along the long side (the hypotenuse) as a sight tube to look through.

To use to measure tree height:

Hold the triangle with the right angle away from you and the plumb line hanging straight down.

Sight through the soda straw to the top of the tree. You may need to walk towards and away from the trunk a few times to get it in view with a level plumb line.

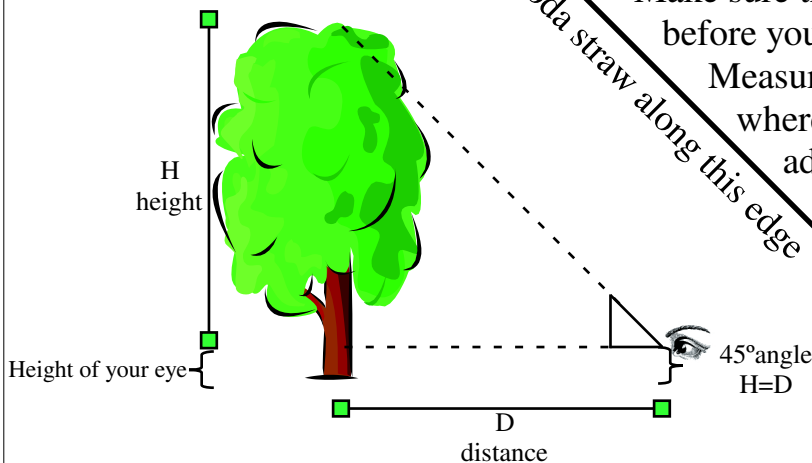
Make sure the plumb line is exact before you measure distance.

Measure from the tree to where you are standing and add the height from your eye to the ground.

This is the height of the tree.

○
○
plumbline

Fold along this line and tape a fat soda straw along this edge



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Tree Height = Distance from the tree PLUS height of your eye from the ground