



Worksheet

How tall is a tree?

Choose a tree to measure. Look at your tree and **guess** how tall it is.

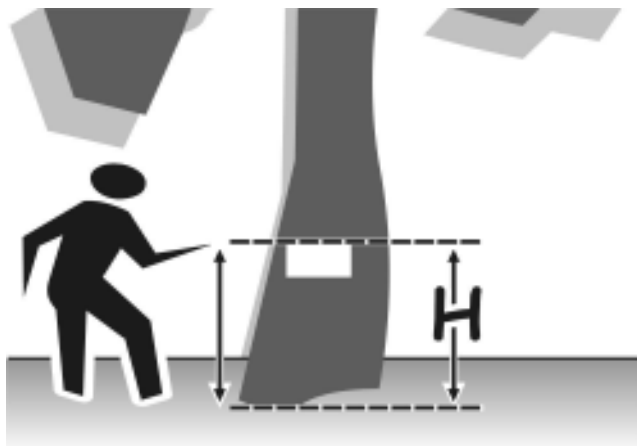
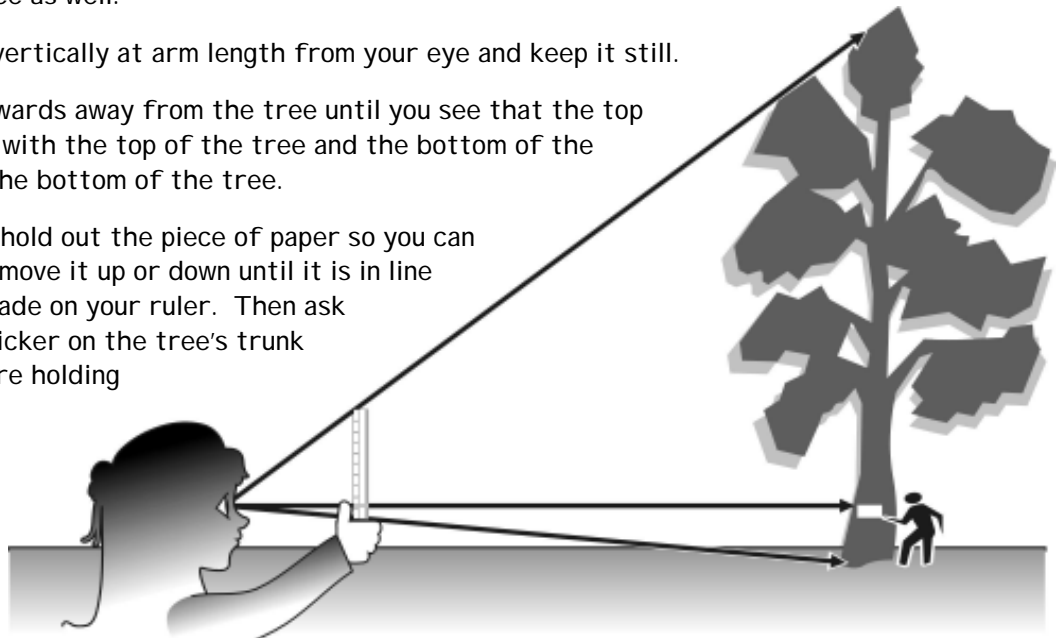
I **guess** my tree is metres tall.

Now let's **ESTIMATE** how tall your tree really is! You will need a partner to work with, a **30cm ruler** and a **tape measure**. Look at the ruler, put a mark on at the 3cm position. Give your partner a small piece of white paper and a sticker, ask them to go and stand next to the tree so you can see them and the tree as well.

Hold your ruler out vertically at arm length from your eye and keep it still.

Walk carefully backwards away from the tree until you see that the top of the ruler is inline with the top of the tree and the bottom of the ruler is in line with the bottom of the tree.

Ask your partner to hold out the piece of paper so you can see it. Ask them to move it up or down until it is in line with the mark you made on your ruler. Then ask them to stick the sticker on the tree's trunk at the height they are holding the piece of paper.



Tree height = Hx10

Walk back to the tree and measure the height that the sticker is above the ground in centimetres and times this by 10 to find out the height of your tree in centimetres.

Height of sticker from the ground x10 = height of tree.

My tree is centimetres tall.

(which = metres tall.)