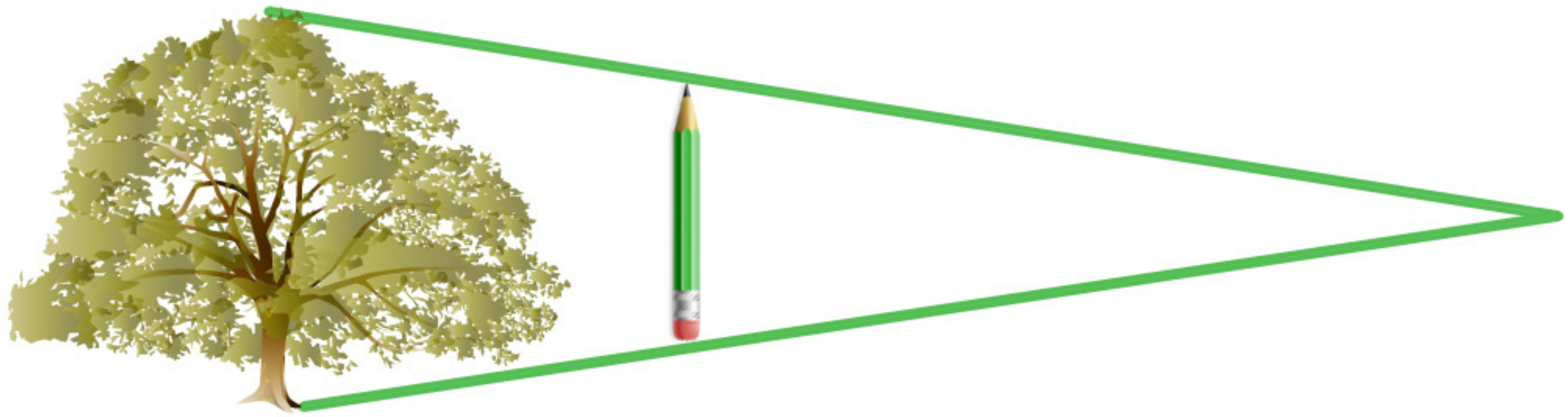# Estimating the height of a tree

1. In pairs, select a tree you would like to find out more about.

2. Measure your normal walking step in centimeters............ (cm).

3. One person stands beside the tree.

4. The other person stands slightly away from the tree and hold a pencil at arms length in front of them.

5. This person closes one eye and lines up the bottom of the pencil with the bottom of the tree.

6. They slowly walk backwards until the tip of the pencil is lined up with the top of the tree. Take great care not to fall over!

7. Turn the pencil on its side keeping the bottom of the pencil in line with the bottom of the tree. Now ask your partner (who should be standing at the base of the tree) to walk, along the line of the pencil until they arrive at its end.

8. From where your partner stops count how many paces it is back to the base of the tree. Multiply by this by the number of centimeter in your pace!

HEIGHT OF TREE =

Number of cm in your step X Number of steps back to tree