

Forest Exploration

A. How old is your woodland?

1. Using your tape, measure 1.5 metres up the tree from the ground.
2. At this height, wrap your tape tightly around the trunk and measure the girth (circumference) in centimetres.
3. Put your answer in the column marked circumference in cm.
4. If your tree is an **evergreen tree**, divide this figure by 3. If your tree is a **broadleaf tree**, divide by 2.5 (you may need a calculator for this). Write this figure in the column marked age. This number is the rough age of your tree.
5. Repeat for a sample of 10 trees.

<u>Tree Sample Number</u>	<u>Circumference in cm</u>	<u>Age</u>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Are your trees roughly the same age (yes /no)? _____

Have the trees been planted by man (yes /no)? _____

B. How tall are your trees?

1. Using the tape, measure your height in metres and enter the figure into the column marked your height.
2. With the clinometer lined up between your eye and the top of the tree, move away from the tree until the clinometer lever falls at a **45 degree** angle.
3. Measure the distance between you and the tree (m) and enter in the column marked distance from tree to you.
4. Add both figures together to find the height of your tree in metres.
5. Repeat for a sample of 10 trees.

Tree Sample Number	your height (m)	distance from tree to you (m)	height of tree (m)
1	+	=	
2	+	=	
3	+	=	
4	+	=	
5	+	=	
6	+	=	
7	+	=	
8	+	=	
9	+	=	
10	+	=	

Are your trees roughly the same height (yes/ no)? _____

Do you think they were planted at the same time (yes/ no)? _____