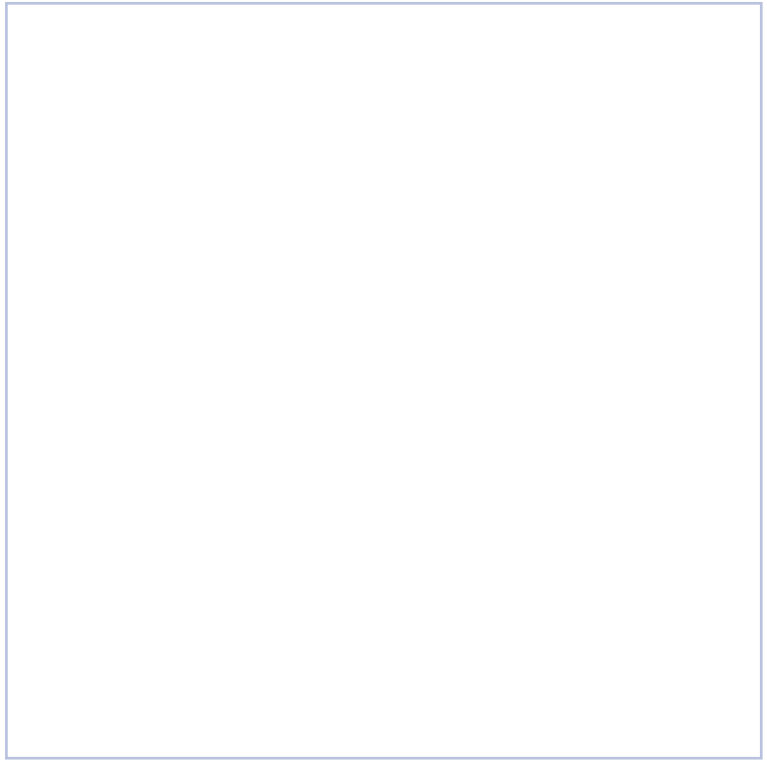
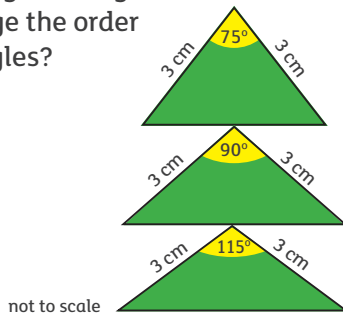




## Question 1

The Christmas tree shape in the diagram is made out of three isosceles triangles, with the top of each triangle vertically in line.

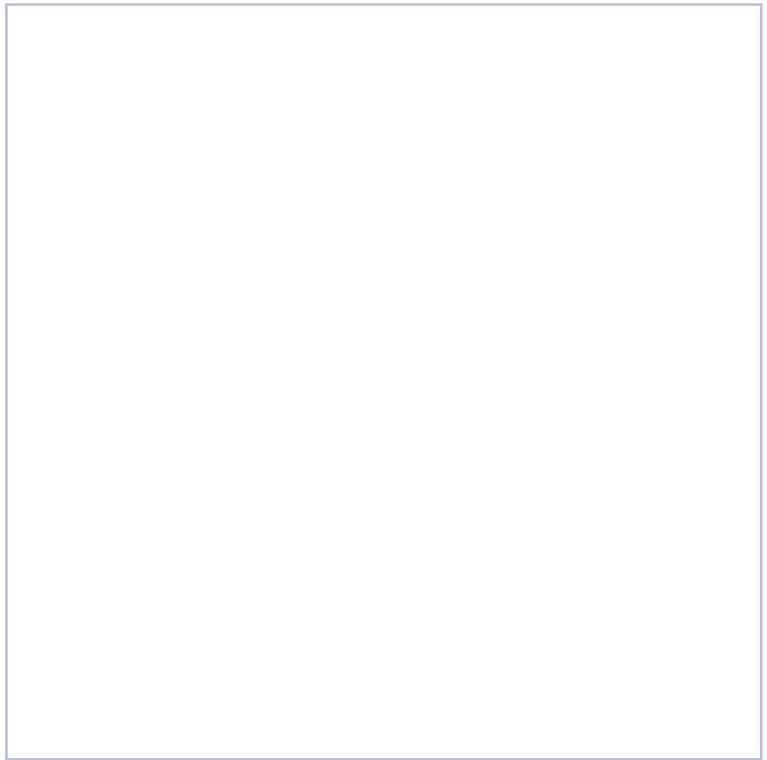
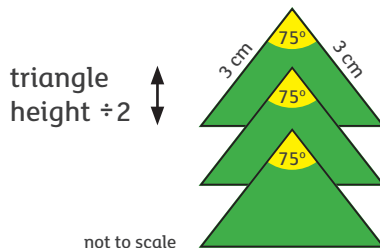
1. Make an accurate drawing of the tree in the diagram using a protractor and a ruler.
2. How tall is the tree?
3. Does the height change if you change the order of the triangles?



## Question 2

If each triangle is moved to overlap with the triangle above it the tree looks more realistic.

1. Make an accurate drawing of the tree in the diagram. (All three triangles are identical this time.)
2. How tall is the tree?





## Question 3

Now create a whole forest of Christmas trees out of triangles with different angles, lengths and heights.

(Why not add more triangles and see who can create the tallest trees in your class!)

