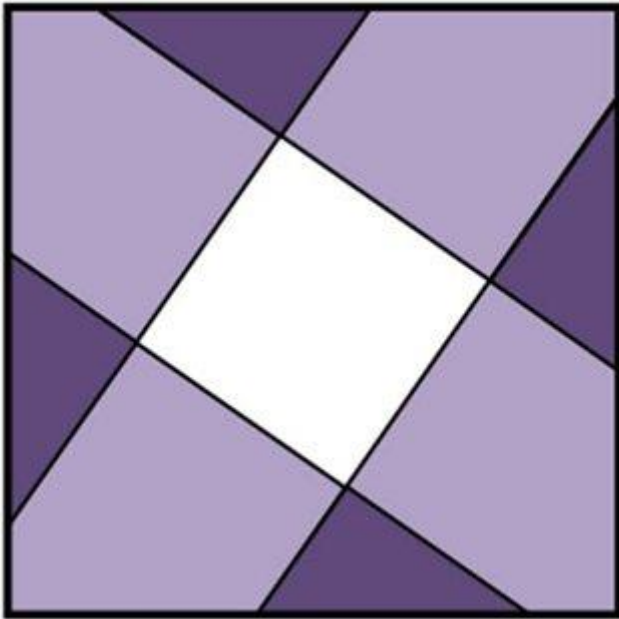


### Challenge 14: Overlapping Triangles

Four identical light purple triangles sit within a large square. The total area of the dark purple regions, where the triangles are overlapping, is equal to the total area of the central white region.



What proportion of the area of the large square is each of the triangles?