

Instructions for Creating the Sierpinski Triangle:

This is an iterative process, you just keep performing the same construction over and over.

Stage 0

Using dot paper, construct an equilateral triangle of side length 16.
What is the area of this triangle?

Stage 1

Mark the midpoint of each side of the triangle.
Join the midpoints to form 4 smaller triangles.
Remove (shade) the center triangle.

Stage 2

Bisect each side of the “new” (un-shaded) triangles
Join the midpoints in each to form a total of 16 smaller triangles
Remove (shade) the center triangles

Stage 3

Bisect each side of the “new” (un-shaded) triangles
Join the midpoints in each to form a total of 64 smaller triangles
Remove (shade) the center triangles