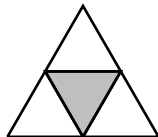


Challenge Problem 1: Shaded Triangles

A triangle is divided into fourths, and the center triangle is shaded.



Then the process is repeated over and over with each of the downward pointing sub-triangles touching the bottom line as pictured below. What portion of the original triangle is shaded?

