Problem of the Week
Problem D
Caen’s Cubes

Caen has a cube with a volume of $n \text{ cm}^3$. They cut this cube into $n$ smaller cubes, each with a side length of 1 cm. The total surface area of the $n$ smaller cubes is ten times the surface area of Caen’s original cube. Determine the side length of Caen’s original cube.