## Problem of the Week Problem D <br> Caen's Cubes

Caen has a cube with a volume of $n \mathrm{~cm}^{3}$. 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.


