



Problem Solver



A piece of string is 40 centimeters long. It is cut into three pieces. The longest piece is 3 times as long as the middle-sized piece and the shortest piece is 23 centimeters shorter than the longest piece. Find the lengths of the three pieces.

A cube has a volume of 8 cm^3 . The cube is expanded such that the length of each side doubles. What is the volume of this new cube?