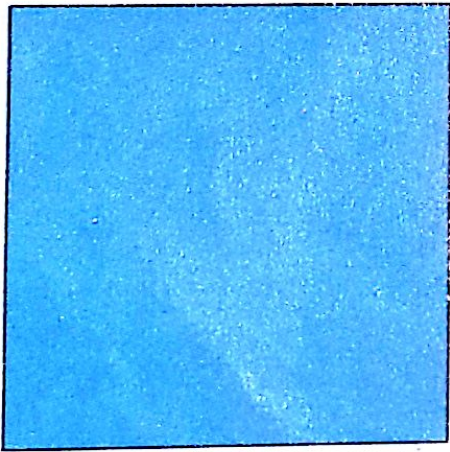
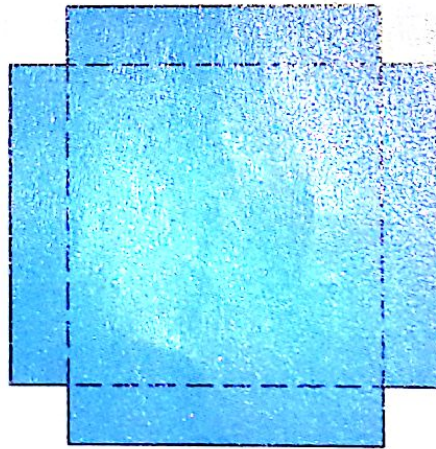


MAXIMIZING THE VOLUME OF A BOX

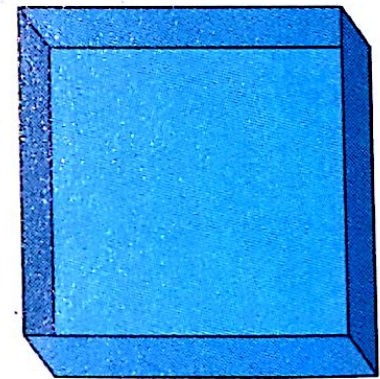
An open-top box is to be made from a square sheet of metal 12 inches on each side by cutting a square from each corner and folding up the sides, as in the diagrams below. Find the volume of the largest box that can be made in this way.



Square sheet



Corners removed



Side flaps folded up
to make open-top box.