

1046-X1-476

H. Smith Risser* (hrisser@mtech.edu), Department of Mathematical Sciences, 1300 West Park, Butte, MT 59701. *Let them eat cake: an introduction to volumes by cross section.*

For this activity, students estimate the volume of a cake using cross sections. The activity was used to introduce volumes by cross sections. This activity was designed to strengthen students' ability to visualize the cross sections of solids and to give students a better understanding of the formula for volumes by cross section. The activity can be done in a 50 minute class period. An extension to the activity that was done as an out of class project will also be presented. (Received September 04, 2008)