

Mathematics 1550H – Introduction to probability
TRENT UNIVERSITY, Winter 2015

Quiz #6. Take-Home! *[Due in class on Thursday, 12 March.]*

Meredith Mortiser wishes to use a saw to cut a wooden cube, with sides 30 *cm* long, into 27 cubes, each with sides 10 *cm* long. Meredith can do this easily by making six cuts through the cube, keeping the pieces together in the cube shape.

$-e^{i\pi}$. Can Meredith reduce the number of necessary cuts by rearranging the pieces after each cut? If so, how? If not, why not? *[5]*