Math 218 Spring 2017 Homework 2 Supplemental Problem Due: February 3

1. A chocolate bar consists of n squares arranged in a rectangular pattern. You split the bar into small squares, always breaking along the lines between the squares. Use induction to prove that it takes n-1 breaks to split it into the n smaller squares.

Comment: Chocolate bars are not necessarily one long line of rectangles. When n = 6 the bar could consist of 6 small squares in a row, or it could consist of two rows of 3 squares each.