



The Fifth Annual  
**Utah Math Olympiad**

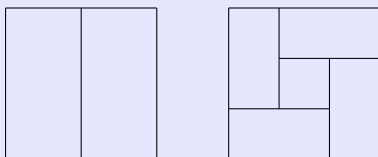
**Saturday, March 18, 2017**  
**1:00 - 4:00 pm**

Participation is free.  
Prize money will be distributed to the top scorers.

For more information and to register, visit [www.utmath.org](http://www.utmath.org).  
Registration ends March 11.  
Contact us at [contact@utmath.org](mailto:contact@utmath.org).

### Sample Problem

When a square is subdivided into  $n$  rectangles, the resulting figure is called a *simple tiling* if there is no set of at least 2 (but not all  $n$ ) of the rectangles which forms a larger rectangle. For example, here are simple tilings with 2 and 5 rectangles:



A *four-corners point* in a subdivision of a square into rectangles is a point where the corners of four rectangles meet. Is there a simple tiling with a four-corners point?

University of Utah  
LeRoy Cowles Building  
Room 225

Brigham Young University  
Talmage Building  
Room TBA