

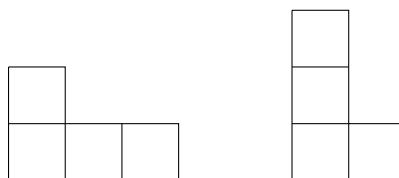


LEWIS AND CLARK COLLEGE

Department of Mathematical Sciences

PUZZLE OF THE WEEK (10/5/2016 - 10/11/2016)

Consider the two kinds of L-shaped figures made out of 4 unit squares; see the picture below.



Let S be the set of all pairs (m, n) of integers $m, n > 1$ for which $m \times n$ rectangular grids can be tiled with such L-shaped pieces. Find, with proof, the set S .

- Sean Richardson is the only successful solver of the Puzzle of the Week #5. Congratulations!
- One possible solution of the Puzzle #5 is posted online. (Look for the Puzzle of the Week announcements on the departmental web-page.)
- Solvers of this week's puzzle should include their name, address, and status at the College. Solutions should be submitted to **Iva Stavrov** in BoDine 305; email submissions are encouraged (istavrov@lclark). Solutions should be received by the end of the day on **Tuesday, October 11th 2016**.