

## **AoPS Community**

## 2002 Turkey Junior National Olympiad

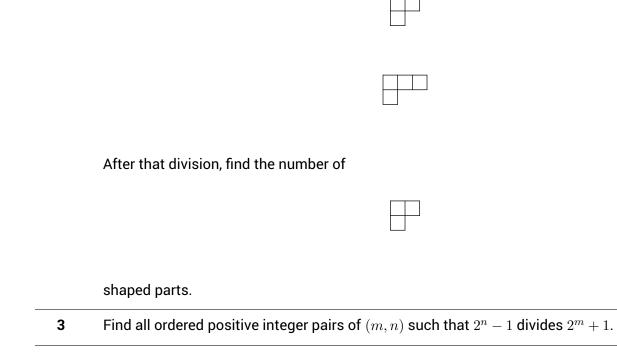
## **Turkey Junior National Olympiad 2002**

www.artofproblemsolving.com/community/c4162 by xeroxia

1 Let ABCD be a trapezoid such that |AC| = 8, |BD| = 6, and  $AD \parallel BC$ . Let P and S be the midpoints of [AD] and [BC], respectively. If |PS| = 5, find the area of the trapezoid ABCD.

2

We are dividing the above figure into parts with shapes:



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