

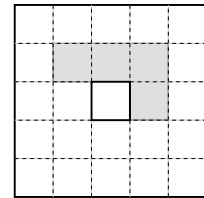
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MATH CLUB TEASER #31

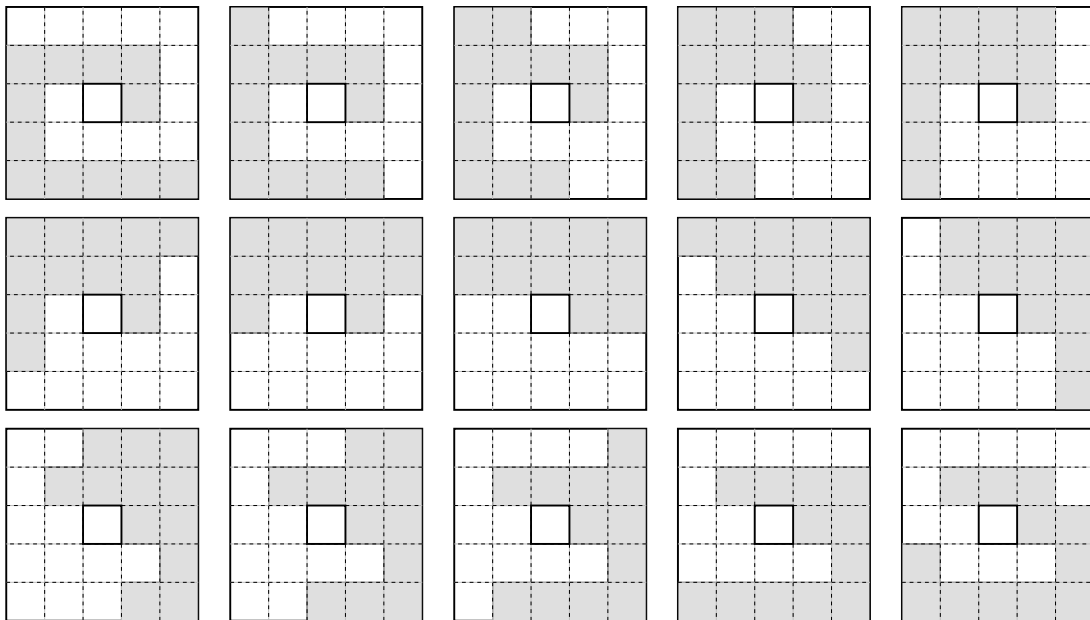
October 16, 2009
(due October 23, 2009)

SOLUTION

The cake is made of 24 squares: 16 in the outer ring, and 8 in the inner ring. After the cut, each of the two pieces must have 4 consecutive inner squares; and because rotations/reflections of a cut pattern are counted as the same, we can arrange the cut so the 4 inner squares in one of the pieces are as in the figure at right.



The 15 possible configurations are:



SOLVED BY:

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Think Before You Act.