

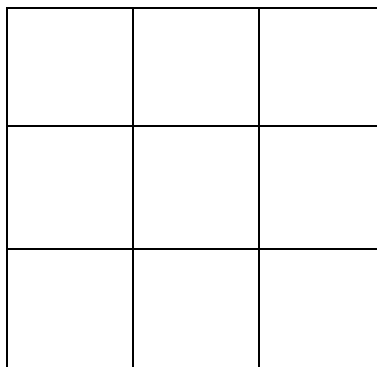
Pi Mu Epsilon

Problem of the Month

October 2018

Consider a three-by-three grid. What is the total number of ways to place four coins on the grid so that the following conditions hold?

- Every row of the grid contains at least one coin.
- Every column of the grid contains at least one coin.
- No square in the grid contains multiple coins.



Problem of the Month Rules:

- ⌘ Submissions must include a complete mathematical justification along with the answer.
- ⌘ Submissions may only be made by individuals or groups of two and must be dated.
- ⌘ Due date: October 26, 2018 before 5 p.m.; they may be given to Dr. Phillip Poplin or Dr. David Shoenthal.

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