

THE HANGMAN-5

If you want to know some more...

⊕ Two players have in front of them 2 piles with 3 objects each. In his turn each player retires objects (from 1 to all) from one of the piles. He can also add to one of the piles a part or all the objects that he has previously retired from that pile. The winner is the one who manages to retire the last object so there's none left.

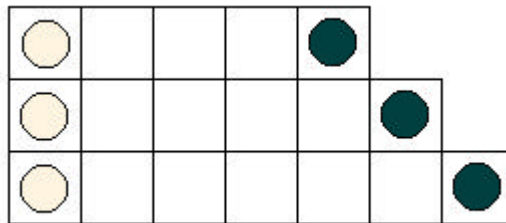
Analyze this strategy game: who can always win and how he must play to get it?

⊕ If you have already solved it, compare the previous game with the game of the hangman in a board with two equal rows of 5 squares each.

What differences do you find between these two games?

✚ The games for 2 players in which you have to take objects away from one or several piles, according to certain rules, are generically known as 'games of Nim'.

Make up an analogous game of Nim (mathematically equal but apparently different) to the game of the hangman in the board that is drawn next. Whites start.



Analyze the game and try to solve it up. Who can always win and how he must play to get it?

YOU WILL NEED:
 3 counters of each color and a blank sheet where you must copy the game board.