

ISOMORPHIC GAMES



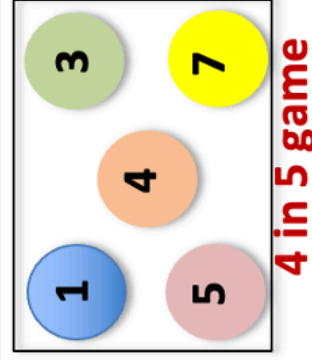
<https://aiminghigh.aimssec.ac.za/odds-games/>

ODDS GAMES

In turn, pick 2 balls at random from the bag.

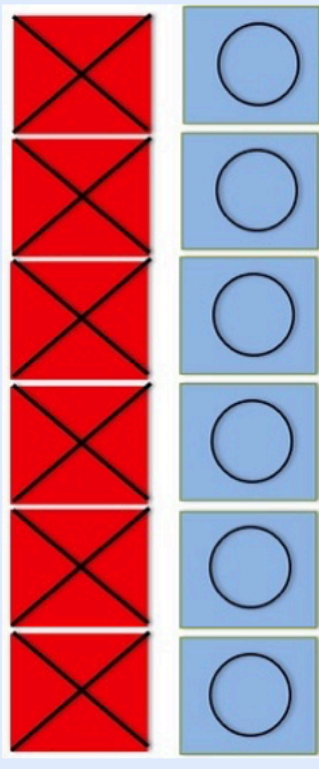
Score a point (or not) according to whether the sum of the numbers is odd or even.

Try putting different numbers in the bag.



RED AND BLUE GAME

In turn, pick 2 cards at random from the bag. Score a point (or not) according to whether the cards are the same or different colours.



GAMES IN DISGUISE OR ISOMORPHIC

Can you explain how the games are fair or unfair depending on the numbers of red or blue cards, or the number of odd or even cards.

Can you explain how outcomes in each of these games correspond to outcomes in the other, and how the games have exactly the same mathematical structure?