

The bachelor thesis discusses selected types of nonstandard dice sets with surprising and, in some cases, paradoxical properties. These dice are used in various gambling games, but they are also interesting from a purely theoretical perspective. The thesis focuses, one after another, on nontransitive, Lake Wobegon and Sicherman dice sets. When studying their properties, it mainly uses elementary probability theory and theory of cyclotomic polynomials. All the terms and results are demonstrated on examples.