

Abstract

The symmetries on a group G are the mappings $G \ni x \longrightarrow gx^{-1}g \in G$, where $g \in G$. These symmetries have interesting applications to enumerative combinatorics and to Ramsey theory. The aim of this thesis will be to present some important results in these fields. In particular, we shall enumerate the r -ary symmetric bracelets of length n .