1026-05-11 Brian Heinold* (heinold@msmary.edu), Dept. of Mathematics and Computer Science, Mount St. Mary's University, Emmitsburg, MD 21727. Sum List Coloring.
Let $f$ be a function assigning list sizes to the vertices of a graph $G$. The graph $G$ is said to be $f$-choosable if for every assignment of lists to the vertices of $G$ with list sizes given by $f$, there exists a coloring of $G$ from the lists (with adjacent vertices receiving different colors). The sum choice number is the minimum of the sum of the list sizes of $f$ taken over all functions $f$ for which $G$ is $f$-choosable. Roughly, the sum choice number is a measure of how small one can make the list sizes and still be guaranteed that every assignment of lists has a proper coloring. We will survey new and known results concerning the sum choice number. (Received December 14, 2006)

