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Craig M. Johnson^{*} (johnsonc@marywood.edu), 18 Fieldstone Dr., Scott Township, PA 18411. Identifying Dihedral Groups of Inversions in Music.

Certain concepts in music theory can be used to expose students to interesting and straightforward problems that involve pattern recognition to identify subgroups of the dihedral group of order 12. These groups appear as sets generated by inversions and transpositions in the works of many classical composers such as Bach and Beethoven. (Received September 20, 2016)