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Steve Butler* (butler@iastate.edu). *Undergraduates count.*

One approach to working with early undergraduate students is to engage them in counting problems with objects that they can directly relate with (e.g. tilings). There are a variety of combinatorial tools that can be used to do this (recursion is often seen); we give particular emphasis on the transfer matrix method which can cover many tiling problems by focusing on what happens “between the columns”. A variety of problems and tools will be discussed as well as ways to look for more problems. (Received September 02, 2019)