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**Carolyn A. Yackel\*** ([yackel\\_ca@mercer.edu](mailto:yackel_ca@mercer.edu)), 1400 Coleman Ave., Department of Mathematics, Macon, GA 31207-0001. *Counting and Illustrating Rep-Tiles*. Preliminary report.

We present results for the number of tiles used for reptiling—one quite general and one quite specific. We then illustrate special cases of each theorem via the ceramic model of the L-tile that inspired this investigation. (Received August 24, 2010)