

1106-H1-1893 **Margaret Kepner*** (renpek1010@gmail.com). *Visualizing Partitions of Integers*. Preliminary report.

Partitioning provides a useful tool for describing the properties of integers. Every integer can be decomposed into a sum of terms (an additive partition) and also into a product of factors (a multiplicative partition, or factorization). Partitions of integers are studied in their own right; furthermore, the topic has applications in number theory and combinatorics. Various diagrams have been developed to help visualize and classify partitions. In this presentation, I will review several of these visual tools, and also explore some alternative presentations. Finally, I will show examples of how I have employed visualizations of partitions in my artistic work. (Received September 15, 2014)