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Richard D Summers* (rds@reinhardt.edu), 7300 Reinhardt College Circle, Waleska, GA 30183. *Partition Numbers and Fractals: Insights Using Bulgarian Solitaire.*

Recently, Dr. Ken Ono of Emory University has developed a new finite formula for partition numbers. The complexity and fractal nature of partitions can be easily grasped by beginning mathematics students using Bulgarian solitaire, introduced in 1983 by Martin Gardner. Bulgarian solitaire will be used to construct directed graphs for partitions following the work of Suzanne Doree of Augsburg College. The presentation involves an actual hands on activity. (Received September 09, 2011)