1163-L5-563   **Anne Quinn*** (`quinna@edinboro.edu`). *Transformations and Simulations on the Game of Set.* The Game of Set is a popular and addictive game which can be enjoyed by people of all ages. Although the talk will begin with a brief introduction for beginners (see my article at setgame website), it will mainly focus on new insights for experienced players. Matrix transformations will be applied to see the effect on theorems about types of sets and about minimum, average, and maximum number of sets. Simulation and modular arithmetic will be also be utilized to study results for dice versions of the Set game. Differences between the two types of Set games will be highlighted. (Received September 09, 2020)