

1116-Q1-1284 **Robert W Vallin*** (robert.vallin@lamar.edu), Department of Mathematics, Lamar University, P.O. Box 10047, Beaumont, TX 77710. *Waiting for a Sequence in Roulette.*

In an experiment of flipping a coin three times, each of the eight possible outcomes is equally likely to occur. However the possible results of three tosses have different wait times for an outcome's first appearance in a string of coin flips. In this talk we apply this idea to a roulette wheel and analyze the wait time for three outcome choices (such as Red/Black/Red) to appear in a run of spins under different green square (0 and 00) interpretations. This is all related to Penney's Game, a non-transitive two-player game that first appeared in 1969. (Received September 18, 2015)