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*How Many Licks to the Tootsie Roll center to a Tootsie Pop?* Preliminary report.

A model is proposed to address the burning question, “How many licks does it take to get to the center of a Tootsie Roll Pop?”. The model incorporates the dissolve rate of Tootsie Pop in saliva with a simulated licking force. Simulated data will be used to determine factors most significantly affecting the dependent variable. A multiple regression model is being proposed. Various factors being involved are: the solutions, stir speeds and temperature. A model that evaluates the data collected will predict the number of licks required to find the Tootsie Pop center. (Received September 26, 2012)